Sedi-fiter the complete dewatering solution



the **complete solution** for all your **dewatering engineering** projects

What is it

Sedi-filter - the complete solution for all your dewatering engineering project.

Our cutting-edge products are here to save you time and money – helping solve the environmental problems associated with excavating and storing wet slurry, sludge and sediments.

Our passive dewatering and containment system is environmentally friendly, simple, low cost and highly effective.

Made from high-quality geotextiles, Sedi-filters are designed to effectively capture solid materials within water, slurries and sludge – WITHOUT the use of excessive or specialist machinery.

Sedi-filters are designed to work in a wide variety of situations - particularly where space is limited.

Designed by Aardvark EM, delivering innovative and environmental projects, and manufactured by DRM Industrial Fabrics, an expert in performance filtration through design - our innovative Sedi-filters are versatile, efficient and easy-to-use.



What it does

Sedi-filters remove excess water from wet wastes, such as sludge, dredged silts and wash waters, through a passive filtration process....

Solids are held within the tube as the water passes through the fabric and flows back to its original source, surrounding ground or another collection point.

The result is a significant reduction in the volume of solid waste that has to be handled and dealt with - with up to 90% of the water removed.



How it works

Our Sedi-filter system is highly adaptable and uses existing machinery and plant.

Material is pumped into the system through one of the three or more ports on the upper side of the Sedi -filter.

The water is then allowed to flow freely out of the Sedi-filter through the fabric – the way a teabag works.

Solid is held in and water flows freely out.

The material remains in place for the required period of time – depending on how much water removal is needed and the composition of the wet material entering the Sedi-filter.

Once the required period has passed the material left inside can be used or disposed of as required.

Technical Specification

The bag is made of a close weave textile which aids the dewatering process.

Sedi-filters are engineered to withstand pressure at the base which allows for stacking .

The Sedi-filters can be made to almost any size, depending on application. The standard size is 7mt wide x 33 mt long - with a volume of approximately 250m³.

Filling is via pumping, the dorsal openings at the top centre of the bag combine an entry port and sleeve, this allows a pipe to be inserted and clamped inside the sleeve. Filling is controlled through a manifold/ valve system, each tube is filled and allowed to dewater. Once dewatered the Sedi-filter is filled again and the process is repeated until the dewatered sludge volume is approximately 80%.

A wide variety of treatments can be applied to the sludge during and after pumping. Air lines can be run through and clamped in place and microbes added, as well as mixing and agitation.



"The use of the Sedi-filter system means that we don't have to add anything to the contaminated sediment to treat it before it is disposed of.

"That means we don't have to have a special license to deal with the waste and we are not increasing the weight of the sludge.

"We can dry it out so it can be accepted to landfill and, because the water is extracted, we are actually reducing the amount we are taking away, which means lower transport costs and less weight at the landfill weighbridge."

Simon Potter, Director Blue Boar

The system can also be used to create artificial weirs and reefs in watercourses and, in the marine environment, for erosion control or recreation.



The dewatering process is the key to the economic recovery of the values actually present in the original sludge.





DRM Industrial Fabrics Bond Street, Bury, Lancashire BL9 7BE Tel: +44 (0) 161 763 1776 Fax: +44 (0) 161 763 1778 Email: info@drm.co.uk

www.sedi-filter.co.uk