

Microwedge®

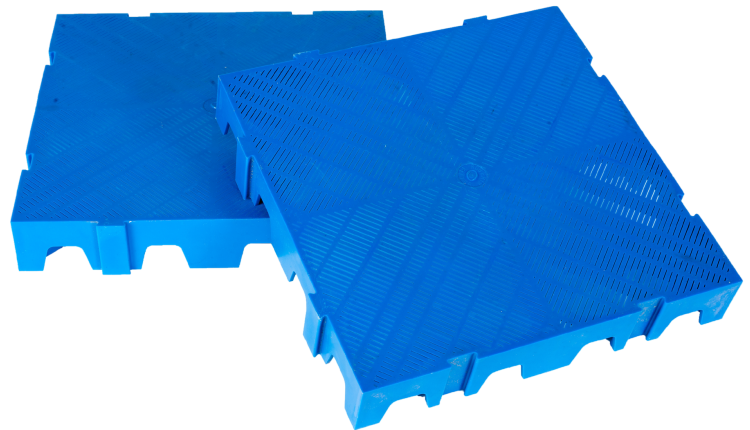
Sludge Dewatering System

Roberts Microwedge Systems have been designed to effectively dewater both industrial and municipal sludges. Basins and bed sizes can be adjusted to fit any application, including upgrading an existing sand bed or converting lagoons. The system is flexible enough to handle industrial spikes or heavy surges from digestors and holding tanks. Microwedge Systems are designed to meet the ever changing demands of water and wastewater industries by providing an environmentally responsible dewatering system.



Easy Installation

The interlocking design simplifies installation and individual unit replacement. The system is capable of continuous operation since there is no possibility of mechanical failure. It requires no energy and is nearly maintenance free.



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Ease of Operation

Operation of the Microwedge Dewatering System is simple. Flood the bed with thickened sludge, wait for the sludge to dry, and remove the dry sludge cake with a front end loader. Following sludge removal, wash down the bed and repeat the cycle. The system can dewater anything from 1% aerobically digested sludge to 5% primary sludge to filter backwash waste, and it can achieve as high as 99% solids recovery.



Design Considerations

A minimum of two beds is typical for most installations. Each bed consists of a concrete basin with an inlaid collection system. The dewatering blocks are placed in the basin and the perimeter is sealed with wood or stainless steel.



Additional Design Recommendations

- A Roberts supplied polymer system complete with custom controls and accessories.
- A recessed sludge inlet with an isolating valve for every 25 square feet of bed area.
- A ramp sloping downward at the entrance of the bed for front end loader access.
- A stainless steel truck ramp used as flashing for the gate entry.
- Embedded manifolds for filtrate collection.
- Solid faced urethane splash plates using the locking design as the dewatering blocks.
- Stainless steel reinforced urethane bucket tips for the front end loader.



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Complete System Design

Complete system design is offered by Roberts Filter Group. Our skilled professionals will customize a system to meet your needs or our staff can recommend and provide all of the necessary components to meet your specified design criteria.



Roberts Filter Group

The Roberts Filter Group is the largest family-owned water filtration company in the U.S. with more than 4,400 installations across six continents. It is a fifth-generation operation that began with one of the world's first patented water filters and has continued to develop pioneering, high-quality filtration products ever since. Today, Roberts continues to work with some of the smartest companies and engineers on the planet to answer the industry's demand for customized, flexible solutions and efficient operations.



Contact

For any inquiries, questions or commendations, please call our office or fill out the 'contact us' form on our website.

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