



Floating Reed Beds

Floating reed beds provide an aesthetic solution to solids settlement enhancement in lagoons as well as fish protection, open water coverage and nutrient polishing.

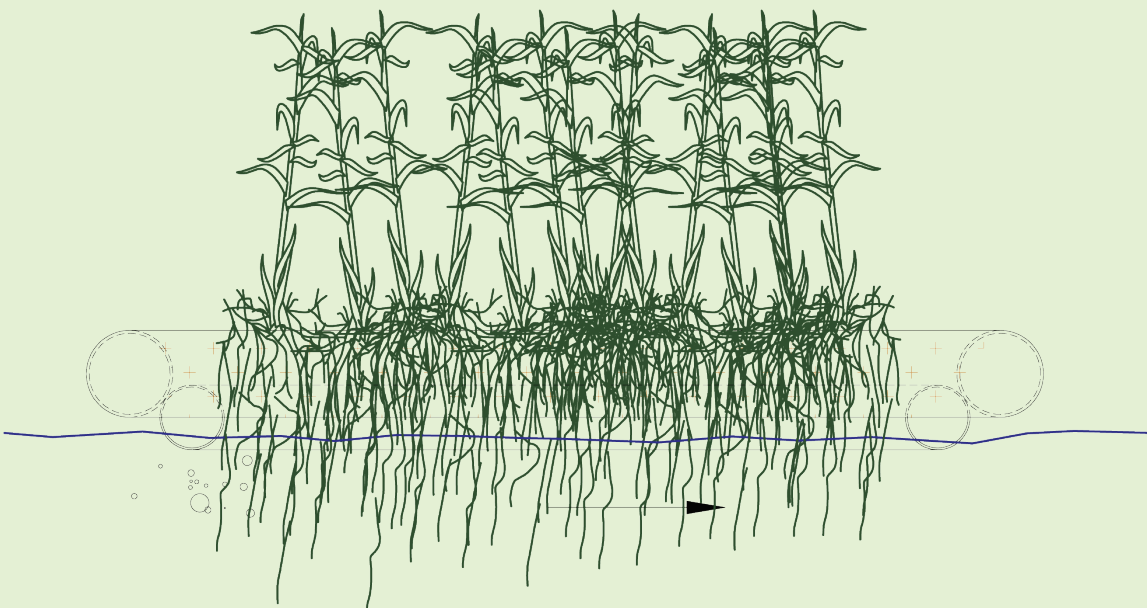


Floating reed beds consist of a buoyant tubular framework of welded UV protected polyethylene, supporting a coir mattress, sandwiched between two layers of plastic mesh into which the reeds are planted. Constructed in 4m² units, the floating reed beds are modular in design and can be created in a variety of permutations to meet any area size or shape requirement. They can be installed on sludge lagoons, storm

water lagoons, ponds, lakes, reservoirs and canals. They are inexpensive, easily installed, require little maintenance and provide a multifunction low energy "Soft Engineering" solution to effluent treatment.

Coir Mattress

The Coir mattress provides an ideal growing medium for the wetland plants to establish.





Root system

The root systems grow down through the water column reducing effluent flow and increasing solids knock down, capture and settlement whilst providing effluent polishing for BOD and nutrient removal.

Modular Design

Modular in design, the floating reed beds can be joined together to meet any size or shape requirement. The raft system is anchored to prevent displacement of the reed raft by water flow or wind.

Floating Reed Bed Application

Floating Reed Beds are a "Soft Engineering" approach to treating effluent. The roots of the wetland plants encourage settlement of solids and provide a polishing treatment for BOD and nutrients, but they can also be used for the treatment of metals. Primarily designed for effluent treatment, they provide the additional function of discouraging large birds by reducing the area of open water. They are ideal for sludge lagoons to aid settlement of solids and for the treatment of surface water run off, as the rafts are able to withstand fluctuating water levels caused by storm events.

Contaminants

Floating reed beds provide enhanced effluent polishing for the following contaminants:

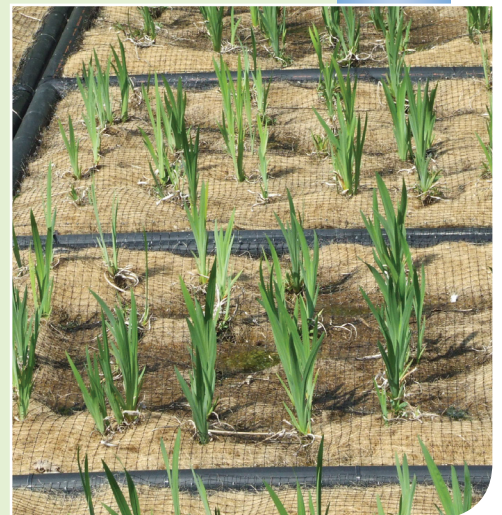
- Suspended Solids
- BOD
- Nutrients
- Metals

Applications

- Sewage Sludge Lagoons
- Minewater Drainage
- Stormwater Treatment
- Reservoirs
- Surface water run off
- Agricultural effluent
- Aquaculture

Bird Control

Each module can be netted to prevent birds from nesting, essential for treatment lagoons, ponds and lakes located near airports where the rafts can be used to reduce bird numbers by covering open water.



natural waste water treatment