



# Floating Eco Islands Specification Sheet



**Floating Islands** are a low cost, modular unit system that allows the creation of custom made floating islands. They can incorporate unique add-ons such as anti-predator fish refuges, biological filters, anti-grazing framework and spawning medium.

Floating islands offer the following benefits:

- Suitable for rivers, lakes, canals, sewage lagoons, storm water storage & reservoirs
- Reduce eutrophication & algae
- Provide a sanctuary for fish & wildfowl
- Absorb pollutants
- Offer protection from predators
- Help reduce bank erosion through wave dissipation
- Provide a natural “food larder” for fish
- Removes suspended solids
- Enhance’s the landscape, and provides a “natural” feature to an open waterscape
- Low cost and low maintenance

#### Floating Islands for Fishery Management:

When used in conjunction with our pre-established planted pallets (native marginals or reeds), floating islands encourage a natural and self sustaining aquatic community which helps create a balanced ecology. Habitat sanctuaries formed by foliage and root matrix growth, both above and below the water encourage colonisation by birds, dragonflies, invertebrates, amphibians and fish. They can reduce re-stocking by decreasing fish loss from direct predation and the provision of spawning habitat improves natural population expansion.

#### Floating Islands for Water Sports Management:

Floating islands give protection to vulnerable stands of emergent and marginal plants on lakes/reservoirs through wave dissipation from water sports such as boating, Jet Ski’s, etc.

They also make “natural looking” separation barriers for different activities.

#### Floating Islands Improve the Landscape & Conservation Value:

Floating islands can bring about a dramatic improvement in the aesthetic appearance of most waters and can be installed purely to enhance the landscape and encourage wildlife diversity.

## Specialists in Geosynthetics & Erosion Control

# Floating Eco Islands specification continued.....

Floating Islands are a low cost modular construction and are assembled from 2m<sup>2</sup> or 4m<sup>2</sup> units. Available with either straight or radius "curved" sections we can make a variety of permutations to meet any size or shape to suit individual customer requirements. Available in kit form for DIY installation or full design led and installation service offered.

## Floating Island Assembly Instructions



Anchor blocks come complete with drilled eye-bolts to attach the island to



Floating Island DIY kit with anchors and fixings



Floating Island DIY kit ready to assemble

*Lay out plastic booms on the ground out of the water to the size and shape required, and then fix one stainless steel bolt and a Nyloc nut to each corner of each boom, passing through both holes and tighten with the head of the bolt facing upwards.*

*Fix flat mesh galvanised panel to bottom of booms (underside) with large cable ties. Four per side equally spaced.*

*Place the above partly made up island into the water and lay pre-established planted pallets onto the inside of the booms laid directly on top of the wire mesh.*

*Open up the grazing cage and fix small cable ties along the loose edge, (approximately 2 No. to each corner) to form square box section of completed cage, and then place over the top of the booms and fix into place with large cable ties taken around the boom, and through the first edge of the wire mesh with three number ties to each side.*

*Should a predator cage have been supplied, this can be installed either on land or in the water. Open up and fix small cable ties along the loose edges, approximately three number to each corner to make up into a box section, and then fix to underside of booms with 4 cable ties to each side (for ease of manoeuvring, this should be attached prior to the placement of pre established coir pallets).*

*Push floating island into required position, and then tie off polypropylene cable around one corner of the islands boom, and then through the eye ring bolt in the concrete anchor block.*

**Important: - Allow enough slack in the cable to accommodate rise and fall of water level.**



1. Bolt the corners together using stainless steel fixings



2. Place mesh base underneath booms and secure with heavy duty cable ties as shown



3. Your island should now look like this, bolted and tied in to place



4. Place pre established coir pallet on to the island, preferably when the island is floating on the water



5. Your island should now look like this



6. Your island is now ready to push in to place on to the water and then secure to the anchor weight

## Specialists in Geosynthetics & Erosion Control