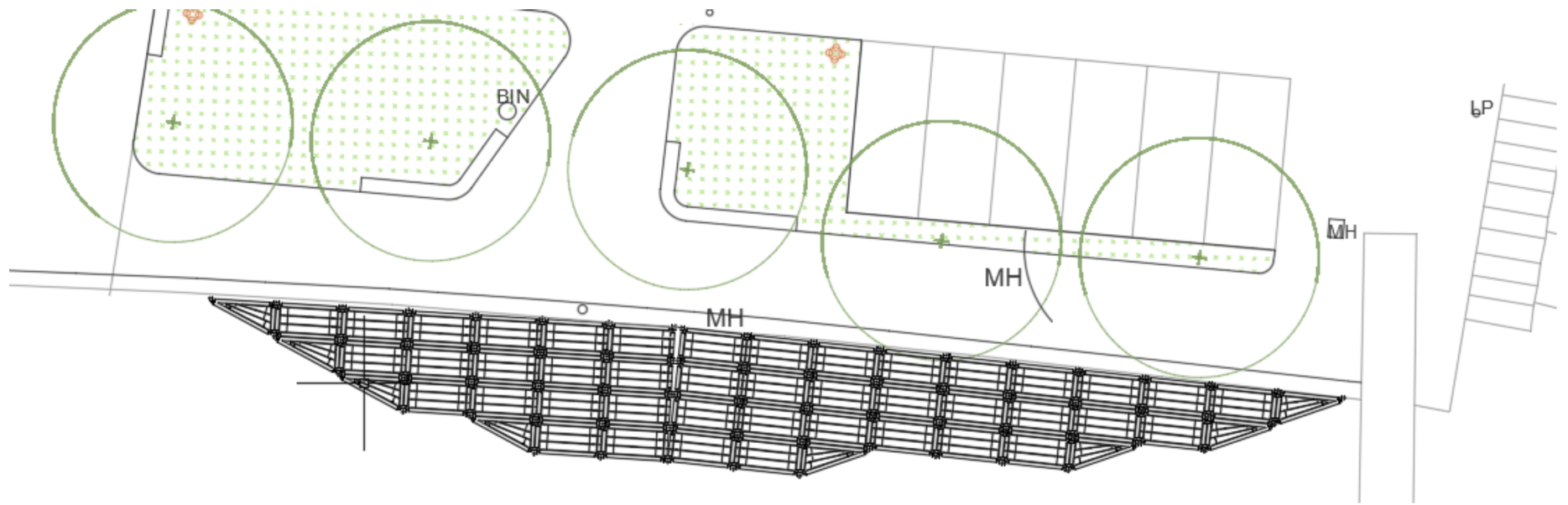


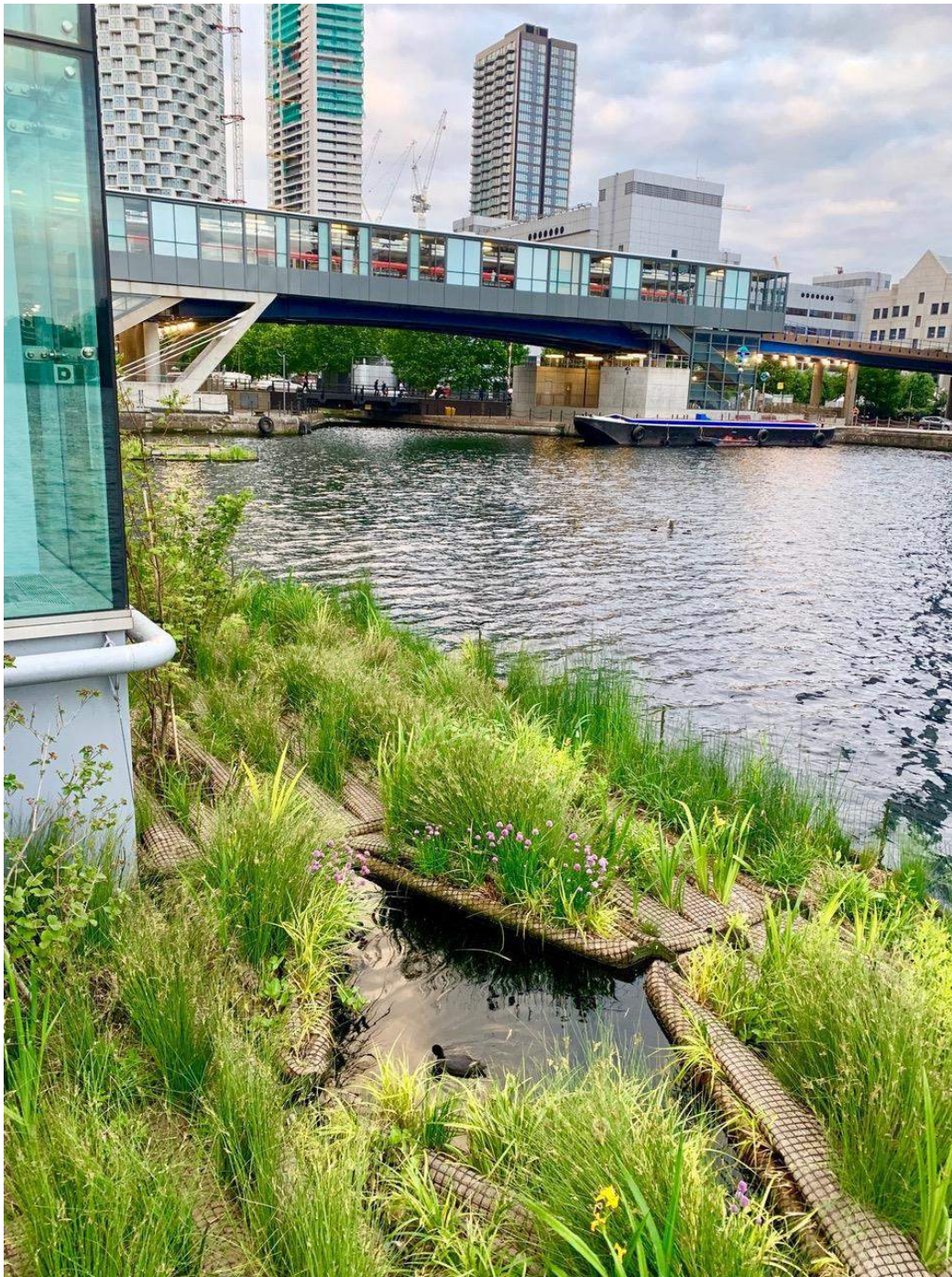
TWICKENHAM RIVERSIDE ECOSYSTEM DESIGN PACK

















 **BIOMATRIX**
BRINGING WATER TO LIFE





Reference Images

OUR PRODUCT

Ecosystem building blocks for urban waterbodies

Planting Systems

The multiple layers and flexible lanes of the 3+4D planting specifications, and the Leca® substrate used in our 5D specification, supports greater plant diversity than standard pre-planted coir mats.

Quick Connect Flanges

Marine-grade stainless steel flange connections join modules together with the capability to adjust rigidity, to pivot and to angle, hugely increasing the strength of the system in challenging conditions.

Independent Tough Floats

Each float is independently manufactured and sealed to provide the strongest and longest lasting Floating Ecosystem available worldwide.

Specialist Solutions

Such as high buoyancy planters, photovoltaic and submerged ecosystem modules create unique habitats for people and wildlife.

Sizes for all sites

The following Biomatrix modules come in both 2.3 metre and 3 metre variants, allowing bespoke design for any morphological conditions.





MATERIALS & SUSTAINABILITY

STAINLESS STEEL (NON-TOXIC & FULLY RECYCLABLE)

POLYETHYLENE (NON-TOXIC & FULLY RECYCLABLE)

POLYETHYLENE (NON-TOXIC & FULLY RECYCLABLE)

COCONUT FIBRE (100% BIODEGRADABLE)

NO NON-WOVEN, PLASTIC PLANTING MEDIA

NO POLYURETHANE FOAM

NO POLYSTYRENE FOAM

NO PVC



The process of developing and manufacturing sustainable ecosystem support structures requires the greatest care and attention to detail in materials selection and materials policy

As such, all products manufactured by Biomatrix are fully non-toxic, contain no foam elements, contain no glues or resins and all components are 100% recyclable

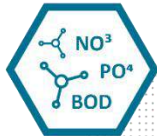
INCREASED CONTACT WITH NATURE

Studies are proving time and time again that mental health is linked to contact with nature. The floating islands turn hard edged waterfront into floating parks, offering people more contact with different species



IMPROVED WATER QUALITY

A micro-wilderness of submerged roots creates an ideal habitat for millions of microorganisms, which use algae, carbon and excess nutrients in the water as a food source, purifying the water.



A SAFE HAVEN FOR BIRDS

Specially tailored platforms provide a refuge for birds safe from disturbance. A mix of habitat types are available for specific species.



Sustainable Materials

Materials are carefully selected for recycled content and recyclability. Only non-toxic materials are used. Once grown the system is typically 60% living biomass and 30% marine engineering materials.



STRONGER FISH STOCKS

A subsurface forest of roots and shelter of shells provides shelter for fish and ideal feeding grounds, improving fish stocks



HABITAT PROVISION

Caring for nature at the smallest level might initially yield invisible effects but soon we will be growing our food in public spaces and inviting many more species into our city.

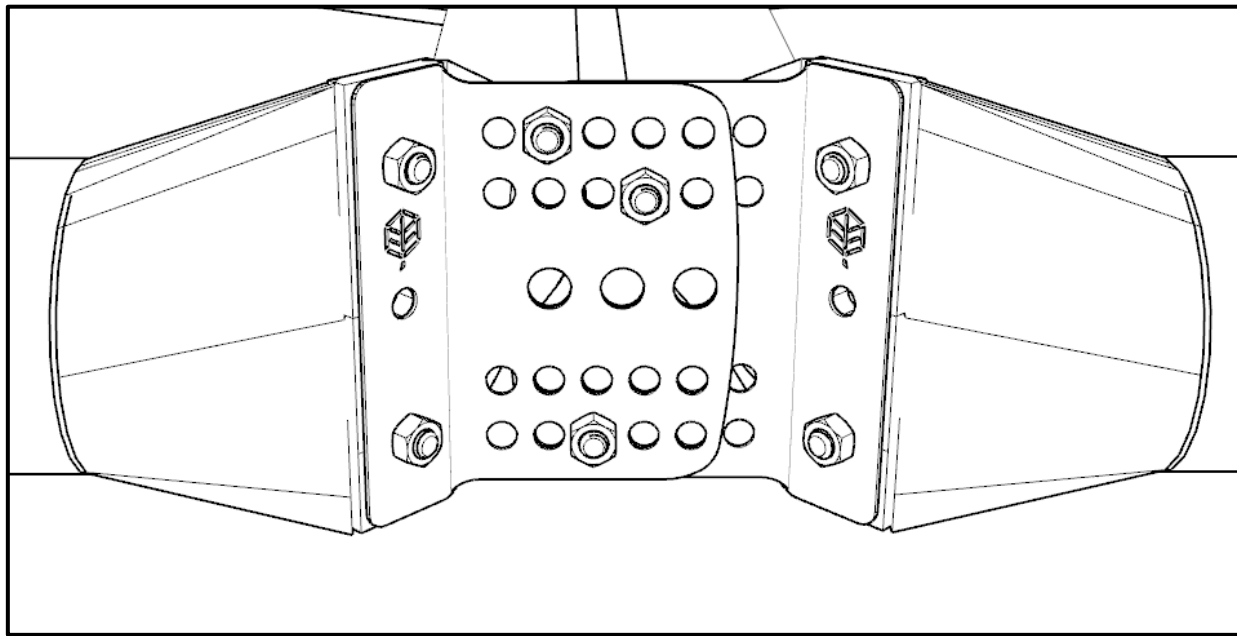




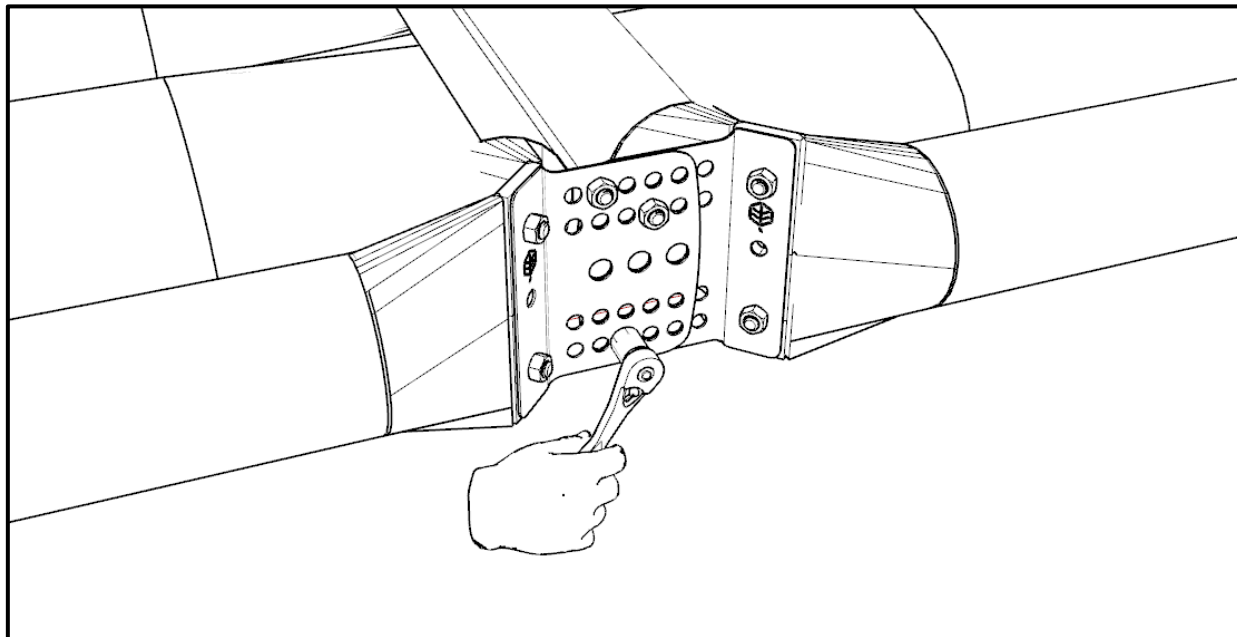
ECOSYSTEM PLANTING & CONSTRUCTION

Biomatrix modules are simple to assemble and provide a versatile interlocking system which can be configured to fit site conditions





Biomatrix Floating Ecosystems are connected with 2/3mm stainless steel flange plates capable of withstanding over 4 tonnes of pull apart pressure.



Connecting another section of islands as part of a second phase of works is a simple task of lining up the new section of islands with the existing and bolting them together.



ECOSYSTEM PLANTING & CONSTRUCTION

Plants are laid across the islands ready for planting by seasoned professionals, left, or younger ecologists, below, who can create and watch their own ecosystems grow

