

# Pre-vegetated coir fibre modules

Sensitive bio-engineering solutions for erosion control, water quality and habitat restoration.



Membrane or clay lined lakes can support a natural stand of vegetation when Pregrown Fibre modules are safely secured to a special fabric covering the fringes of the bank and water.

Rolls protect the toe of slopes and retain fill material. In cases of deep undercutting, a stable foundation can be established using AGA Rock Rolls, Faggots, Gabions, Geotextiles or RipRap.

Pregrown Fibre Units anchored firmly to gabions, piles, concrete revetments etc. provide a naturalising effect to the stark appearance of a hard structure and offer habitat and access to wild life.

Established wetland plants can withstand reasonable wave impact. Many species will dissipate wave energy through leaf and stem elasticity. Vegetated units calm water, contain the substrate and support vigorous growth.

Proven results are achieved using pre-grown coir modules. Our wetland nurseries at Merton – the UK's largest nursery dedicated to producing pre-vegetated coir – ensures the client of a reliable year round service.

Bioengineering with AGA Coir Fibre Products is the proven approach for effective yet sensitive design and construction.

Natural materials and growing vegetation bring together biological, ecological and engineering concepts to vegetate and stabilise eroding banks.

The A.G.A.Group are able to supply large quantities of *Phragmites australis* as 195 root trainers for the rapid and successful establishment of reed beds.

Our modules improve water quality, catch and stabilise sediment and counteract non-point pollution.

We continually develop techniques and applications so we can offer Consultants, Landscape Architects and Civil Engineers a whole spectrum of materials and installation methods.

A.G.A.Group are the UK's largest growers of native and ornamental lilies.

A.G.A. pre-vegetated units support the growth and development of the plants that physically secure the bank or shoreline. Native wetland plants are selected for their adaptation to varied physical conditions and also provide excellent cover for invertebrates, fish and wildlife.

## Standard stock planting

Fibre Roll  
Mixed planting  
6 plants/linea  
metre

300mm dia  
*Iris pseudacorus*  
*Carex acutiformis* and *riparia*  
*Phalaris arundinacea*  
*Juncus effusus*

400mm dia  
*Iris pseudacorus*  
*Carex acutiformis* and *riparia*  
*Phalaris arundinacea*  
*Juncus effusus*

300mm dia ornamental rolls  
*Iris pseudacorus*  
*Iris kaemtferi*  
*Lobelia cardinalis*  
*Caltha palustris flore plena*  
*Scirpus albascens*

Plant Pallets  
Monocultures of  
18 plants/pallet

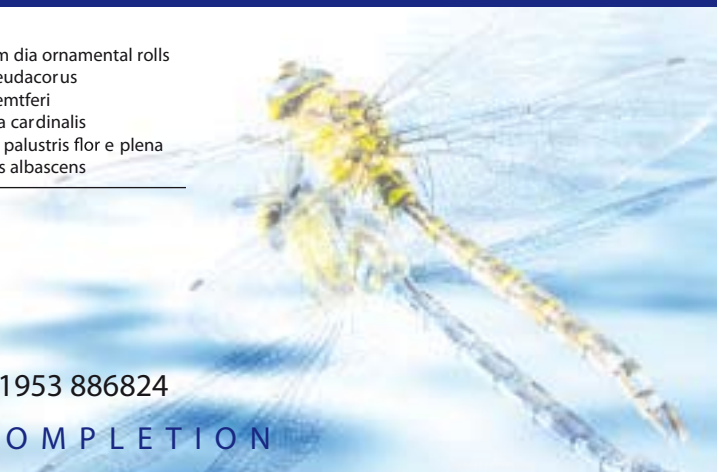
*Phalaris arundinacea*  
*Phragmites australis*  
*Typha latifolia*  
*Carex acutiformis*  
*Iris pseudacorus*

*Scripus lacustris*  
*Juncus effusus*  
*Lythrum salicaria*  
*Sparganium erectum*



Telephone: +44 (0) 1953 886824

CONCEPT TO COMPLETION



# The A.G.A. Group

Leaders in bio-engineering systems – specialist in controlling erosion and improving the environmental aspects of streams, rivers, lakes, balancing ponds and wetlands.

## COIR ROLLS

### Typical specifications

Dimensions	Dry weight unplanted
300mm dia. X 3m long	9kg per 1 liner metre
400mm dia. X 3m long	17kg per 1 liner metre

Compression: 110 to 120 kg/m<sup>2</sup>

Netting: Synthetic multi-strand fibre. 50mm diamond mesh

### Pre-planted and established coir rolls

Our nursery grown coir has been planted using 195 root trainers

Plants will be well rooted and firmly established at 6 per linear metre



Pre-vegetated coir units must be handled with care to ensure plants are not damaged. Following delivery they must be left unstacked at the installation site, kept well watered and free from direct wind and frosts.

## COIR PALLETS

### Specifications

Size	Pallets
1.2m x 0.8m (1m <sup>2</sup> )	Dry weight unplanted. 5kg approx per 1m <sup>2</sup>
5m x 1m (5m <sup>2</sup> )	Dry weight unplanted. 30kg approx per 1m <sup>2</sup>

### Pre-vegetated pallets

These will have been planted at the nursery with 195 root trainers.

Plants will be provided at the rate of 12 per 1m<sup>2</sup> and will be firmly rooted into the coir pallet before delivery.



Coir pallets are the simple answer for the rapid and natural establishment of marginal aquatic vegetation. Whether to create margins to lakes, ponds, rivers or stream banks, to cover artificial linings or repair and enhance areas of damage, pallets will probably be the most reliable solution.

Vegetation softens the hard appearance of timber, concrete or steel, We can provide a well engineered and environmentally attractive solutions either to existing or new structures.

The use of pre-grown coir units results in rapid anchorage to the bank or installed structure and a speedy return of the waterline to its natural state.

As required our package will include – Faggots – Rock Rolls – Wooden Stakes – Live Willow. These products are specifically tailored to our installation techniques and will have been supplied from renewable resources, having no detrimental effect on the environment.

For more information please contact us.

We can quote you for supply of materials and their installation or for turnkey projects.

A.G.A. Group

Merton Hall Ponds, Watton Rd,

Merton, Thetford, Norfolk IP25 6QH

Telephone: +44 (0) 1953 886824 Fax: +44 (0) 1953 889644

Email: info@agagroup.co.uk www.agagroup.co.uk



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