Description

Salix produce a wide range of pre-established Coir Rolls planted with high quality native plant species.

We plant our Coir Rolls at a high density and grow on at our nurseries from between 12 to 24 months to ensure that the vegetation is dense and provides a robust revetment and instant vegetation cover.

Mature Coir Rolls are often used for Ecological Restoration projects where mature vegetation needs to be established rapidly, noticeably for protected species such as Water Voles.

Coir Rolls are available unplanted or pre-established with mature native wetland plants.

Standard plant mixes are available from stock all year round or specialist mixes can be contract grown to order.

Coir Rolls are produced as 0.2m and 0.3m diameter units as standard.
Coir Rolls are composed of coir fibre which is a sustainable waste product from the husk of a coconut.

Salix produce high quality Coir Rolls with mature aquatic vegetation for numerous applications.

Coir Rolls can be an excellent technique for establishing native marginal vegetation around lake edges, streams and rivers banks.

**Applications**

- Water Vole Habitat Creation
- Wetland & Reedbed Establishment
- Habitat Ponds & Great Crested Newts
- River Restoration
- River Bank Erosion Control: Bioengineering Solutions
- Moorland Restoration
Applications

Water Vole Habitat Creation

Water Voles are the fastest declining mammal in the UK and habitat loss has been a major factor in this decline. Efforts to improve water vole habitat quality and quantity form a key part of any ecological restoration or habitat mitigation scheme and using mature “pre-established” Coir Rolls is a recognised best management practice in order to achieve these goals.

Our Water Vole rolls are grown for between 12 to 24 months so that the vegetation is mature and provides the fastest method of establishing water vole habitat available. Plant species are selected that provide both cover and a food source and water voles have been observed amongst the vegetation within Salix’s mature Coir Rolls within days of installation.

Lake & Shoreline Protection

Bioengineering techniques can provide long term protection to shorelines whilst establishing valuable habitats.

Pre-established Coir Rolls are an integral bioengineering tool that can be used to protect shorelines and establish marginal vegetation that will provide long term stability and habitat.

When used in conjunction with a Rock Roll the resilience of a Coir Roll greatly increases meaning that they can be successfully used in more demanding and higher energy environments.

Coir Rolls installation before backfilling and Coir Pallets placed on berm in Autumn.

6 months later

Rock Roll protection to face of Coir Rolls on reservoir shoreline

Reservoir shoreline one year later with excellent reed growth
Pre-established Coir Rolls can be used as a part of a “Soft Engineering” (Bioengineering) approach to dealing with bank erosion.

The mature planting and Coir Roll (mix of coir fibres and strong outer netting) provide an excellent cover for exposed soils and the mature vegetation slows water flows locally to reduce erosive forces.

As our Coir Rolls are grown to maturity the root matrix is dense and will lock into the underlying soils very quickly and improve soil stability rapidly.

The result is a soft engineered bank with instant habitat and stability that becomes more resilient with time as the plants establish fully into the bank.

River Restoration

Driven by the Water Framework Directive, river restoration has gained momentum in recent years.

Coir Rolls are widely used for marginal, emergent and bankside plant establishment within river restoration schemes.

It has been observed that establishing target native vegetation using mature pre-established coir rolls can reduce the risk of invasive plant species colonising river banks after restoration.

Moorland Restoration

Restoring natural drainage processes is a key element within moorland restoration. Grip blocking using Coir Rolls is a more natural way of achieving this function.

Salix mini ‘Coir Logs’ have been approved throughout most UK sites as a suitable alternative to the heather bales, which can contaminate healthy areas of heather moorland, if infected with heather beetle.

Coir Rolls and lightweight Coir Logs can be manually installed, often removing the need for machinery in sensitive ecological habitats.
Net Specification

Net Material:
UV stabilised polypropylene multi filament net
2.5mm diameter with a minimum tensile strength of 0.84kN
Roll end closed by stitching with a 3mm diameter multi filament braided UV stabilised polypropylene yarn
Breaking strength of individual yarn no less than 102kg

Net Opening:
50mm, diamond mesh pattern

Coir Rolls are manufactured in the UK using virgin mattress type coir fibre.

Stuffing

Virgin coir mattress fibre:
Machine filled to maintain constant density of coir fibre
Fibres >50mm length, typically 100mm to 150mm

Compressed density:
8kg/metre (based on 300mm diameter Coir Roll)
Will not compress more than 15% when an 80kg weight (average man) is applied

Standard Roll Sizes

3m long by 0.2m diameter
3m long by 0.3m diameter
Salix can manufacture a variety of lengths to suit site conditions.
Pre-established Coir Rolls

• Coir Rolls are established at our specialist UK nursery with a proven track record of growing high quality coir products.

• Coir Rolls are planted at a rate of 10 plants per m and grown outdoors in wet beds to create a hardy plant.

• Minimum growing period is 6 months during the growing season (March – September).

• Roots of plants are grown through the bottom and sides of the Coir Roll to ensure correct maturity of vegetation.

• All plants within Coir Rolls are grown to Flora Locale code of conduct for UK native plant growers.

Contact us for correct species choice at specification stage.

Pre-established Coir Rolls on a Water Vole habitat creation scheme
# Plant Species Selection

<table>
<thead>
<tr>
<th>Standard mix</th>
<th>Monocultures</th>
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<tbody>
<tr>
<td>• Carex acutiformis (Lesser Pond Sedge)</td>
<td>Salix grow a variety of monoculture rolls for specific sites including</td>
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<tr>
<td>• Juncus effusus (Soft Rush)</td>
<td>• Phragmites australis (Common Reed)</td>
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<tr>
<td>• Lythrum salicaria (Purple Loosestrife)</td>
<td>• Schoenoplectus lacustris (Common Club Rush)</td>
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<tr>
<td>• Iris pseudacorus (Yellow Flag Iris)</td>
<td>Many other species may be available in stock and if not they can be contract grown to order.</td>
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<tr>
<td>• Phalaris arundinacea (Reed Canary Grass)</td>
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<tr>
<td>• Available with or without Glyceria maxima (Sweet Reed Grass)</td>
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Bionet C125BN and Coir Rolls newly installed. The top photo shows growth in 6 months.