



Coir Rolls



www.phoenixamenity.co.uk

COIR ROLLS

Description

We 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.



300mm diameter pre-established Coir Roll lifted from wetland nursery bed

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We produce high quality Coir Rolls with mature aquatic vegetation for numerous applications - an excellent technique for establishing native marginal vegetation around lake edges, streams and rivers banks. ”



*Coir Rolls are made of coir fibre
- a sustainable waste product*



*200 mm Coir Rolls installed
on a small stream*

Applications

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



*Coir Rolls are composed of coir fibre which is a
sustainable waste product from the husk of a coconut*

COIR ROLLS

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 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.



Newly installed Coir Rolls and Pallets River Restoration



Coir Rolls and Pallets one year later after major floods

River Bank Erosion Control: Bioengineering Solutions

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.



Installation of Coir Rolls and Pallets



6 months later

COIR ROLLS



Unplanted and pre-established Coir Rolls

SPECIFICATION

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

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

We can manufacture a variety of lengths to suit
site conditions.

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



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 metre 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*

COIR ROLLS

Plant Species Selection

Standard mix

- *Carex acutiformis* (Lesser Pond Sedge)
- *Carex flacca* (Blue Sedge)
- *Iris pseudacorus* (Yellow Flag Iris)
- *Juncus effusus* (Soft Rush)
- *Lythrum salicaria* (Purple Loosestrife)
- *Phalaris arundinacea* (Reed Canary Grass)
- Available with or without *Glyceria maxima* (Sweet Reed Grass)

Monocultures

We grow a variety of monoculture rolls for specific sites including

- *Phragmites australis* (Common Reed)
- *Schoenoplectus lacustris* (Common Club Rush)

Many other species may be available in stock and if not they can be contract grown to order.



Bionet C125BN and Coir Rolls newly installed



Shows growth in 6 months

