



# PRE-ESTABLISHED COIR ROLLS

*Product Brochure*

Pre-established coir rolls provide a robust, organic living revetment for soil erosion control and habitat creation in water environments.

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**Salix**



## Pre-established Coir Rolls

Our coir rolls are planted with native wetland plants at our nursery and then transferred to our outdoor wetbeds in order to create a hardy mature plant with an established root system. This ensures the highest success rate and performance in-situ.

Coir rolls are an excellent technique for establishing marginal vegetation along lake edges, streams, and riverbanks. To thrive, pre-established coir rolls must be partially submerged in water, ensuring optimal growth conditions for wetland plant species.

Our coir rolls are available with a range of native wetland species, for various habitats, ensuring optimal plant performance and solutions.

We maintain ready-to-use standard plant mixes in stock all year round. For site-specific requirements, we offer custom species mixes on a contract grow basis. Please contact us to discuss your project needs.

Our rolls are made from organically produced Grade A coir mattress fibre, ensuring high quality performance.

### Unplanted Coir Rolls

Unplanted coir rolls offer a natural, biodegradable structure that acts as an organic revetment, for check dams and silt control. These are often used in peatland restoration.

Our unplanted coir rolls can be supplied in 1m to 3m lengths with diameters ranging from 0.20m to 0.40m.





# Coir Rolls

*Progression of root growth protruding from our pre-established coir rolls during wet-bed maturation*



*Planting coir rolls ready to be matured in wet-beds*

*Coir rolls by our nursery wetbeds*





**A low carbon,  
environmentally  
sensitive  
bioengineering  
solution**

## Benefits

Designed for instant and long-term performance, Salix coir rolls provide a range of environmental and practical benefits.

### Instant Performance

Our pre-established coir rolls deliver immediate vegetation coverage and can be installed at any time of year, providing water levels allow.

### Durability

Coir is a lignin based fibre providing enhanced durability and design life. Once the vegetation colonises and the coir has fully degraded the wetland plants will provide a long term cover.

### Enhanced Water Quality

Coir rolls support natural filtration, improving water quality by trapping sediment, while wetland plants provide bioremediation.

### Soil Erosion Control

The combination of mature planting within the coir rolls provides excellent cover for exposed soils and the dense root matrix will lock into underlying soils improving soil stability. The mature vegetation slows water flows locally, which can reduce downstream erosive forces.

### Carbon Sequestration

Coir fibre is a by-product of the coconut industry, which is a natural carbon sink, absorbing and storing carbon throughout its life cycle. As the coir biodegrades, it will form part of the soil in a wetland environment. Established wetland plants will also fix in large amounts of carbon. Salix's unique method of coir production means pre-established coir products are carbon neutral.

### Biodiversity

Coir rolls are supplied with a wide variety of native plant species, these can provide an excellent habitat for small mammals such as water voles, birds, amphibians, invertebrates and fish, increasing the local biodiversity.

### Flexible & Easy Installation

Lightweight and versatile, our coir rolls can be easily installed in a variety of environments. They can be anchored using biodegradable wooden fixings.

### Custom & Standard Planting Options

Standard species mixes are typically available from stock year-round, while specialist mixes can be contract-grown to meet specific project requirements. Please allow on average 6-12 month lead time for contract grow options depending on time of year.



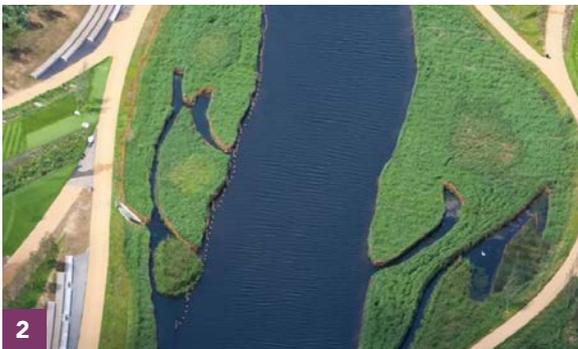


# Coir Roll Applications



## 1. Habitat Creation

Our specific mixes for protected species such as water voles are carefully selected, providing essential cover and a food source. Pre-established coir rolls are extremely effective for habitat mitigation or restoration schemes, allowing projects to be delivered on time.



## 2. Reedbed & Wetland Establishment

Wetlands are essential natural water filtration and flood mitigation systems. Our coir rolls kickstart the vegetation establishment and colonisation of reedbeds and wetlands, which can be difficult to achieve or slow to establish in challenging environments.



## 3. River Restoration

Used in restoration projects often in conjunction with coir pallets and fascines. Coir rolls can help protect, reshape or narrow river channels, improving flow dynamics and restoring natural processes.



## 4. SuDS

Coir rolls can be utilised on SuDS schemes and urban watercourses, often to form organic channel edges. Their flexible nature allows a sinuous shape to be formed, protecting the soils behind.

**Highest quality  
products for  
use in river  
restoration**





# Applications



## 5. Lake & Shoreline protection

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, as well as mitigating wave action or boat wash.



## 6. Intertidal Terraces

Pre-established coir rolls can be used alongside Salix rock rolls to create intertidal terraces. The rock rolls dissipate the wave energy, protecting the native vegetation within the coir rolls. This provides critical habitats that are rapidly declining and often form part of planning consent.



## 7. Peatland Restoration

Restoring natural drainage processes is a key element within moorland restoration. Grip blocking using coir rolls is a natural way of achieving this function to slow the flow, trap sediment and encourage native plant growth.





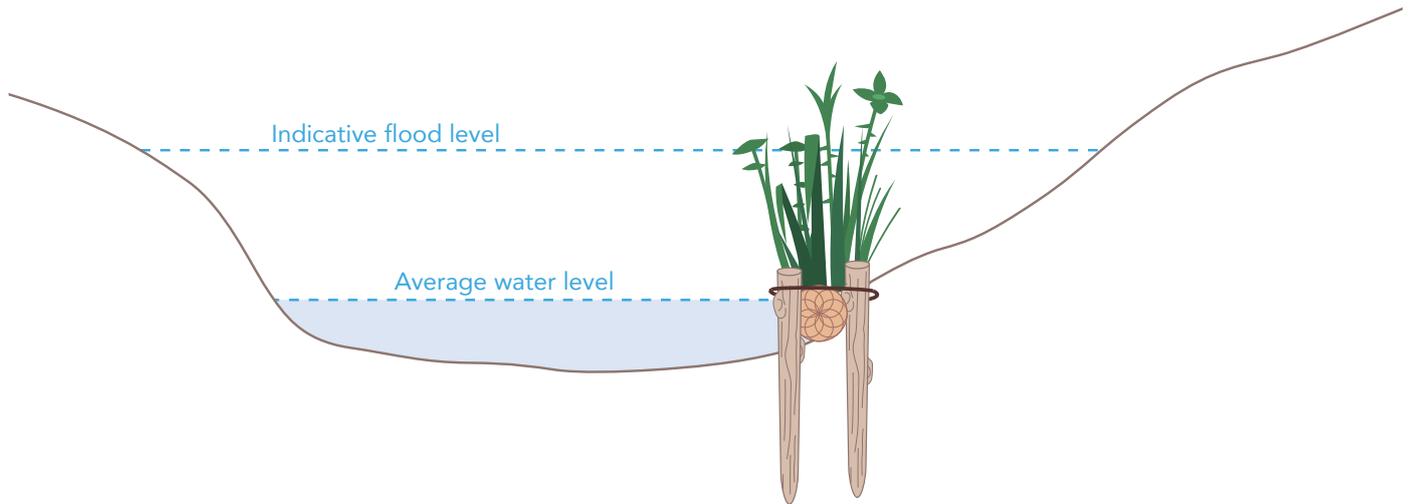
Pre-established coir rolls being installed on site at Iport



Pre-established coir rolls being installed



## Coir rolls fixing solutions





**Coir is a natural  
by-product of the  
coconut industry, we  
ethically source from a  
cooperative of villages  
in south west Sri Lanka**



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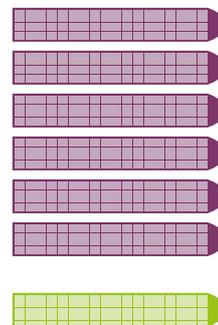
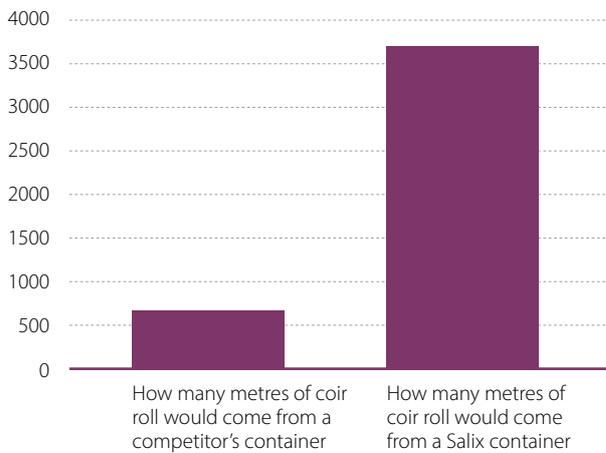


### Efficient use of a by-product

80,000 to 100,000 coconuts, picked and processed by hand, which have grown and sequestered CO<sup>2</sup>, fills one container of highly compressed coir fibre (a by-product of the coconut industry).

We source our coir fibre from fully traceable organically managed plantations, which are both sustainably and ethically managed.

We can make up to 3700m of coir rolls from only one container of highly compressed coir fibre.



For every one of our containers our competitors have to ship up to 6 times the amount!

This is 80-90% more efficient than shipping "ready made-up coir rolls", where most of the shipping container is air.





## Investing in technology

Salix have invested significantly in equipment to “unpack” the compressed coir fibre in the UK (we are the only company in the UK who can do this).

We then manufacture the coir rolls in the UK from the compressed fibre (supported by a 50kW Solar PV array) and plant up our coir rolls & pallets in wetland beds for 1-2 years (we have 800,000 plants currently growing in our rolls & pallets at our 26 acre wetland nursery).





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