

COIR ROLLS



Salix

www.salixrw.com

Product

Coir Rolls are an excellent technique for establishing marginal vegetation around lake edges and on streams and rivers banks. Coir rolls are cost-effective, organic revetments that are suitable alternatives to hard revetments in many applications. Coir rolls provide a cost effective method of introducing marginal habitat to artificially lined lakes, rivers and canals.

Coir fibre is an ideal fibre for erosion control and vegetation establishment and is a completely sustainable fibre. Salix use double cleaned virgin mattress coir fibre which with an average fibre length of 150mm. The high lignin content of coir gives it the "woody" characteristic and means that the fibre can cope with high-energy water flows and has a long degradation period of approximately 5 years.

Specification

Coir Rolls are manufactured in the UK to any specification, depending upon site requirements. The following are standard stock items.

0.2m diameter by 3m long roll: 5kg per linear metre dry weight
0.3m diameter by 3m long roll: 9kg per linear metre dry weight
0.4m diameter by 3m long roll: 17kg per linear metre dry weight

Nets:

- Synthetic: 2mm high tensile strength polyethylene yarn net with mesh size of 50mm, in a diamond shape.
- Natural: High strength 5mm coir yarn with mesh size of 50mm, in a diamond shape.

Lengths of up to 6 meters can be manufactured.

Applications

- Water depth: 0.1m to 0.5m, or up to 1 metre if raised upon rock rolls/faggots
- Permissible Velocity: 3m/s or higher if used in conjunction with rock rolls, riprap or other hard toe revetment
- Wave action up to 0.3 meters

Specification/Technical Data (300mm diameter roll)

- The fibre rolls shall be machine manufactured in the UK from coir fibre with a mean fibre length of 150 mm \pm 50 mm, compressed to a density of 110-120 kg/m², and contained by a net of 2mm polyethylene yarn or 5mm coir yarn with a mesh size of 50 mm.
- Dry weight 9 \pm 0.5 kg/lin.m.
- Wet weight -1 hour after removal from the water approx. 20.6 kg/lin.m.
- 4 hours after removal from the water approx. 16.7 kg/lin.m.



Unplanted & pre-planted Coir Rolls

Fibre rolls shall be fixed to stakes approx. 1.2 m long x 65 mm average dia. at 0.8 m centres, using 70mm diameter quarter cut chestnut stakes. Fibre rolls shall be fastened end to end with 5 mm dia. nylon yarn/coir yarn.

Pre-vegetated Options

Coir rolls can be established with any mix of native wetland plants and given sufficient lead-time local provenance plants/seed can be contact grown into our rolls.

Each species mix should reflect the erosion control needs of the site as well as the local ecological requirements. A lead-time of approximately 12-16 weeks in the growing season (March- September) is required to contract grow specific mixes. Pre-planted products offer a greater tolerance to fluctuating water levels, flow/wave induced shear stress and grazing by waterfowl.



Pre-planted coir rolls with "well established vegetation"

