

Coir Fibre Rolls - Installation Guidelines.

Supplied plain (Standard or pre-drilled) - Pre-Planted or Pre-Established.

Standard Size: - 300mmØ x 2.2M / 3M long (7/9kgs per LM) - Other sizes available on request - 150mmØ - 200mmØ - 400mmØ - Please ask for details.

Description - Coir Rolls are made of 100% natural and biodegradable Coconut Fibre and consist of tightly packed fibre wrapped in either 2mm Polypropylene netting (diamond shaped with a mesh size of 50mm) or our 5mm heavy duty coir yarn netting (diamond shaped with a mesh size of 50mm) and are typically 2.2M or 3M in length x 300mm diameter, weighing 7-9kgs per LM. Each roll end is closed by stitching with a high tensile strength polypropylene yarn.

Coir rolls can be supplied plain, or pre-drilled with 25mm hole x 150mm deep, planting cores = 6 per metre. Pre-planted coir rolls are established at our specialist UK nursery with a proven track record of growing high quality coir rolls, on a large scale. All our plants are grown from local UK seed and supplied by British Flora. The rolls can be fastened using good quality chestnut hardwood fixing stakes (untreated) - Minimum 75/80mmØ and pointed, length dependant on site conditions, normally 1.2M / 1.5M long (no less than 900mm).

Applications -Terraqua's coir rolls have many reinforcing and stabilisation uses from slope and bank stabilisation to managing river flows, canals, drainage channels, ponds, and lakes. Coir logs are ideal for the promotion of new planting and can be used in combination with our range of biodegradable erosion control blankets & nettings, for slope & bank protection.

Installation Guideline - Coir rolls are easily installed and will naturally blend into the environment providing ground stabilisation and are an excellent growth medium for plants. Prepare the chosen site prior to the installation of the coir logs by removing any large rocks or obstructions such as tree stumps to ensure that the log makes direct contact with the soil. A trench should be dug at a depth of no more than a third of the diameter of the log used e.g. 100mm trench for a 300mm diameter coir log.

Ensure that the coir logs are laid tightly together end to end and secured together with a coir rope or 2.5mm galv-steel tying wire. The coir logs are secured into position with suitably sized untreated hardwood fixing stakes, minimum of 75/80mmØ x minimum 900mm long, longer stakes to be used for softer or more unstable soil conditions.

Stakes should be positioned 300mm from either end of the coir log and both sides. Spacing for other fixing stakes should be no more than one metre apart, both sides of the coir log, closer together in poorer more unstable soil conditions. The stakes should be driven between the outer netting and the core material of the coir log (not through the log) and the stake tops should be flush or just below the top of the coir log for safety reasons and overall appearance. We recommend that at least two thirds of the fixing stake be below the ground and a third above.

2.5mm galv-steel wire is used in securing the coir rolls to fixing stakes. Once the coir logs have been secured in position, you may wish to backfill just below the top level of the coir log for appearance and additional planting purposes.

The use of additional coir logs above the first row up a sloping bank to create steps or terraces to promote vegetation and prevent soil erosion. Where a taller face is required, the coir logs can be stacked on each other, stepping back the rows and securing the logs together with the use of stakes and coir rope or ties.

Coir rolls can form part of our bioengineering system and depending water depths, faggots, rock rolls and other soft engineering products may be used. Please ask for details.

We would advise that both pre-established coir rolls and site planting is protected from birds and other wildlife with a protective net or mesh and removed when the plants are established. Please ask for details.

Maintenance

The installation should be inspected at regular intervals, particularly after severe weather conditions, checking the condition of the fixing stakes, replacing if necessary to ensure that the coir rolls are secure and remain in position. Protective netting should be removed once any planting has become established and is no longer required. Spare plants are always available for allowing replacing plant failures caused by others.