

CoirFence™

CoirFence™ is a system designed for easy creation of retaining geocells, and stabilisation fencing, on embankments where top soil is vulnerable to slippage during vegetation establishment.

The tough CoirFence™ strips restrain and reinforce the friable surface mantle; providing stable conditions for an effective binding root mass to development and penetrate the underlying subsoil, or fractures and fissures in the bedrock (where density and shear strengths are higher). The coir fibre fencing also act as a wick which encourages infiltration of water - reducing surface runoff and improving soil drainage.

The system has also been successfully used on water margins to encourage sedimentation and the regrowth of reed beds. The low CoirFence™ diamond grid dissipates energy from incoming waves, while trapping and filtering out sediment from water passing through it. The system therefore protects both the newly formed sediment deposits and young reed plants until vegetation is well established.

CoirFence™ provides a flexible, effective, and practical, natural fibre alternative to non degradable synthetic geotextiles, or expensive and labour intensive wickerwork. The system is also kind to the environment as the coir fabric decomposes gradually over 5 to 10 years, integrating with the soil and newly developed root network

Features/Benefits:

- Fully biodegradable geocell
- Soil retention
- Stabilises soil on embankments
- Reduces stormwater runoff
- Traps and filters sediment
- Environmentally friendly
- Easy to install

Application Categories: Surface Erosion Control, Water Margin Protection



Agrotextiles



Biodegradables



Geotextiles



Specialist



Wildlife



Living Walls & Roofs



Accessories



CoirFence™ Installation Guidelines

The system consists of wooden stakes, or steel rods (rocky ground), and Hy-Tex CoirFence™ fabric, arranged in either diamond or parallel patterns.

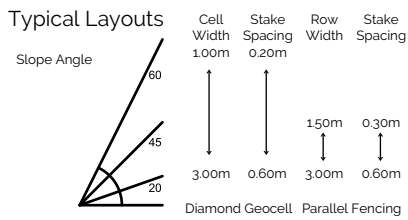
The posts are driven firmly into the prepared ground, perpendicular to the surface at regular intervals, leaving the equivalent to the fence height protruding. On rocky slopes holes must be pre-drilled.

CoirFence™ is then unrolled and fixed to the uphill side of the posts with 18mm staples, binding wire or cable ties.

Next soil is added directly to the cells and spread evenly with a hoe or shovel.

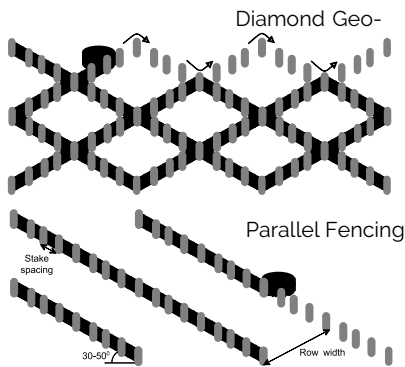
Finally suitable seeds, plants and/or trees are introduced to development permanent stabilisation.

In addition, where site conditions require, one of the extensive range of Hy-Tex erosion control meshes, or blankets, can be also secured over the surface to provide further protection.



The above figures are given for guidance only. Factors such as fill type, shear strength of underlying ground and severity of erosion forces must be taken into consideration

Typical usage: Diamond 1.2 lm/m², Parallel 0.6 lm/m²



| Feature | Hy-Tex CoirFence™ |
|---|--|
| Material | Woven Pure Coir Yarn. True Selvedge Both Sides |
| Yarn Quality | Best Anjengo, two ply, hard twisted |
| Weave Count | 70 wefts per running metre. 36 warps per 20cm width (non-woven space between each 6 warps) |
| Tensile Strength (BS EN ISO 10319: 1996) | Dry 6.44 kN/m, Wet 5.32 kN/m |
| Extension at Max Load (BS EN ISO 10319: 1996) | Dry 29.50%, Wet 32.80% |
| Fence Widths | Standard 20cm high (Other sizes also available) |
| Roll Length | 50.00m |
| Fixings | Pointed timber stakes 0.60-1.20m x 40-80mm diam Steel rebar rods 0.40-0.80m x 14-20mm diam. |

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