

## Rock Rolls

**Rock Rolls have been developed for use with coir fibre rolls. In effect they act as a small, flexible and permanent gabion.**

In turbulent flows Rock Rolls are used to provide a solid foundation on top of which pre-vegetated coir fibre rolls can be installed. The roots of the emergent plants then quickly grow into the voids of the rock rolls, giving long term erosion control and bank support.

Rock Rolls that are installed below coir units can also be used to support a filter fabric or biodegradable matting. This system retains the fines in the bank while the roots of the plants from the pre-vegetated coir units establish themselves into the bed of the waterway and through the woven geotextile into the suitable fill.

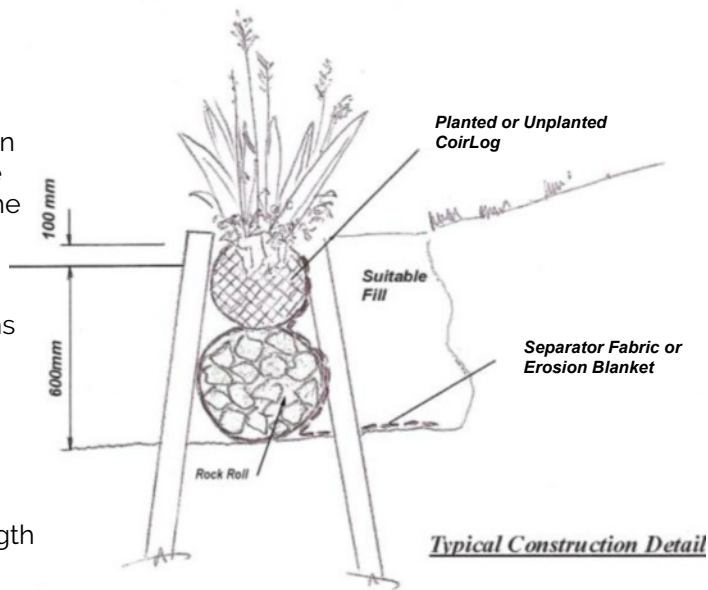
### Assembly and installation guide

Rock rolls are normally made up into 2m lengths. Your overall length of netting before filling should be 2.2m long. To fill the rock roll netting tube, first tie off one end of the net with the cord provided and support the rock roll netting about 2m above the ground.

The easiest way to fill the rock roll tube would be to make up a square ply gig with a 300/400mm diameter hole in the centre of the ply and fix four steel hooks to the top outside edge of the ply panel. Support the gig between the tines/forks of a fork lift or make up a simple scaffolding frame.

Fill the secured rock roll netting with rounded type gabion stone, ideal stone size would be 70-100mmØ, tie off the open end of the netting and lay the filled rock roll on the ground with the seam of the net uppermost.

When ready to install, pick up the rock roll from the seam of the netting, using two chain slings complete with hooks positioned about 400mm from each end of the rock roll and lift into position.



*Typical Construction Detail*

| Feature                  | Rock Rolls   |
|--------------------------|--|
| Diameter                 | 300mm<br>400mm                                     |
| Netting Mesh Size        | 45mm   |
| Roll Length              | 2m   |
| Netting Polymer          | Polypropylene                                      |
| Netting Tensile Strength | 3.2KN/mesh (CEN/TC/53)                             |
| Netting Yarn Type        | 5mm knotless multifilament                         |
| Stone Fill               | Granite Stone 70-130mm or as specified by engineer |
| Target Weight            | 300mm = 240kg/roll,<br>400mm = 360Kg               |

### Features/Benefits:

- Provides solid foundation for CoirLogs to be installed
- Creates environment for plant roots to bind to
- Long term erosion control and bank support



Application Categories: Water Margin Protection