

## Greenfix Rock Rolls and Rock Mattresses

### Application and Benefits

Rock Rolls are manufactured from a 3mm high strength polyethylene braided knotted net and formed into tubular bags, filled with 40-75mm weather and frost resistant granite they can be used on their own to provide on-going erosion protection or as part of a bioengineering solution to create a fully vegetated revetment. Commonly used around water-course shorelines, high-flow riverbanks & streams, rock-rolls provide a flexible solution that gives immediate scour protection, particularly in applications below water. The maximum permissible flow velocity for filled Rock Rolls is 8m/s.



#### Rock Roll Netting Specification

Synthetic Polyethylene braided knotted netting
Ø3mm (250 m/kg)
Reinforced UV treated 350 Kly
Mesh size: 30mm x 30mm or 45mm x 45mm
Colour: Black
Diameter: 250 (17 meshes) or 300mm (21 meshes)
Length: 2.1m (2m once filled and tied)
Breaking strength of 1 single square mesh: 125.4kg = 1.495Kn/ Mesh =29.091Kn/mtr
Effect of heat: Soften at 140 to 160°C Melts at 165 to 173°C
Effect of sunlight: Substantially unaffected after prolonged exposure
Effect of acids: Good resistance to conc. Sulfuric and hydrochloric acids
Effect of alkalis: Good resistance to conc. Sodium hydroxide

#### Rock Mattress Netting Specification

Synthetic Polyethylene braided knotted netting
Ø2.5mm (310 m/ kg)
Reinforced UV treated 350 Kly
Mesh size: 30mm x 30mm
Colour: Black
Diameter per net: 250mm (26 meshes)
Length: 2.2m (2m once filled and tied)
4 pieces of nets stitched together to get 1 mattress of 2m x 1m x 0.25m (L X W X H)