

Rock Roll Mattress Specification



Rock Roll Mattresses are a tubular revetment consisting of small stones retained within a high strength polyethylene net. Rock Roll Mattresses are used in all areas where vegetation alone will not provide sufficient erosion control. Salix Rock Roll Mattresses have been designed to provide invertebrate habitat and to accrete fine sediment to enable vegetation establishment within the rock. Rock Roll Mattresses can be combined with bioengineering solutions to create fully vegetated revetment. Salix Rock Roll Mattresses have been developed in partnership with the European Soil & Water Engineering Group (ESWEG).



Net Specification

Net Material: 3mm Synthetic Polyethylene braided knotted nets
Net Apertures: 45mm
Net Yarn Thickness: 3mm
Single Mesh Tensile Strength: 152,4 kg = 1,495 kN/mesh
U.V. treated 350 Kly
Colour: black

Stone Specification

Weather and frost resistant rock
Grading: 50 to 110mm

Unit Sizes

Standard sizes are shown although Rock Rolls can be made different lengths.
Standard Size: 2 metres by 2 metres mattress
Diameter: 250mm or 300mm

Weight per m2:
250mm diameter: 300 kg/m2 *
300mm diameter: 380 kg/m2 *
*(+/- 10%)

Performance Testing

Salix Rock Rolls have been tested at the University of Dresden, Germany.

Rock Roll Performance

- Maximum permissible flow velocity: 8m/s
- Maximum wave height: 1 metre
- Maximum Shear Stress: 1200N/m²



Rock Roll Mattress Benefits

- Uses smaller stones than gabions mattresses which increase invertebrate habitat and increase sediment deposition
- Allow vegetation establishment
- Flexible over uneven ground
- Length and diameter can vary
- If used in front of a pre-established coir roll the Rock Roll Mattress protects the coir roll from abrasion. This allows vegetation to be established in high energy areas.
- Netting not liable to abrasion of coating followed by rusting and failure like wire mattress



CONTACT DETAILS

Salix River & Wetland Services Limited
Salix, Croxton Park, Thetford, Norfolk IP24 1LS
Telephone 0870 350 1851 Fax 0870 350 1852
Email info@salixrw.com

www.salixrw.com

Salix 