

Link™ Rock Mattresses

Woven Hexagonal Mesh Rock Mattress

A flexible and porous high flow/shear resistance to scour



Product Information

Link™ Rock Mattresses provide a highly versatile solution of earth retention and erosion protection for designers and contractors in a wide variety of applications for hydraulic structures. Link Mattresses are constructed of double twisted hexagonal woven steel wire mesh with internal diaphragms that create compartments or cells. The compartments or cells are of equal dimensions and spacing to provide even distribution of the stone fill throughout the mattress even after structural movement. Even distribution of the stone fill ensures that the Link Mattress maintains intimate contact with the foundation soil. Their flexible and porous nature allows them to provide high flow and shear resistance to scour. Rock mattresses are available in 170, 230, 300 or 500mm thickness and can be Galfan® (aluminum / zinc / rare earth mischmetal alloy) or Galfan and polymer coated for extended durability.

Applications

- Scour protection
- Riverbank toe protection
- Culvert outlets
- Coastal protection
- Energy dissipation
- Batter chutes

Link™ Rock Mattresses

Benefits

- Local stocking to assist in timely deliveries
- Range of wire coatings to suit varying environmental conditions
- Wide range of sizes available
- Supported by a BBA Certificate providing known quality/durability

Features

- Porous
- Flexible
- Extruded polymer coating
- Galvan® wire coating technology
- Long history of use
- Accessories available



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Product Data Sheet

Standard Mattresses Sizes (Nominal)

Length	Width (m)	Height (m)
6	2	0.17
6	2	0.23
6	2	0.30
6	2	0.50*

* the specification of the 6 x 2 x 0.5m unit shall be confirmed at time of order

GALFAN 6/2.0

MANUFACTURE: Link Rock Mattress are manufactured from double twist hexagonal woven wire mesh in accordance with EN 10223-3.

MESH SIZE: The mesh openings are hexagonal and of nominal dimension of 60mmx80mm and shall conform to EN10223-3.

MESH WIRE: The nominal mesh wire for the body of the mattress shall be 2.0 mm in diameter and of a nominal 2.4mm for the selvedge wire. The body wire, selvedge wire and lacing wire shall be in accordance with EN 10218-2 and EN 10223-3.

CORROSION PROTECTION: Galfan coated to EN 10244-2 Class A (215g/m²). Galfan shall be supplied from ingot source complying with ASTM B750 to include rare earth metals.

JOINTING: All joints and connections shall be formed with continuous 2.2mm Galfan lacing wire and/or high tensile 3mm diameter Galfan "C" rings.

DIAPHRAGMS: Fixed at 1.0m c/c across the mattress width. A Link Rock Mattress that is of standard 6m length will have 5 internal diaphragms.

GALFAN PVC COATED 6/2.0

MESH SIZE: The mesh openings are hexagonal and of nominal dimension of 60mmx80mm and shall conform to EN10223-3.

MESH WIRE: The nominal mesh wire for the body of the mattress shall be 2.0 mm in diameter and of a nominal 2.4mm for the selvedge wire. Both the body wire, selvedge wire and lacing wire shall be in accordance with EN 10218-2 and EN 10223-3. The stated overall wire diameters shall increase by 1mm when the wire is PVC coated.

CORROSION PROTECTION: Galfan coated to EN 10244-2 Class A (215g/m²) with an extruded grey PVC coating of mean wall thickness of 0.5mm. Galfan shall be supplied from ingot source complying with ASTM B750 to include rare earth metals.

ADDITIONAL POLYMER COATING: PVC coating to EN 10245-2.

JOINTING: All joints and connections shall be formed with continuous 2.2mm (body wire) PVC coated zinc galvanised lacing wire and/or high tensile 3mm diameter stainless steel "C" rings.

DIAPHRAGMS: Fixed at 1.0m c/c across the mattress width. A Rock Mattress that is of standard 6m length will have five internal diaphragms.

BBA APPROVAL: Link Rock Mattress PVC coated hexagonal wire mesh is BBA certified for up to 120 years design life.



About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

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