Global Synthetics
LEADERS IN GEOSYNTHETICS

Linklok®

Double Twist Mesh/TRM Matting Erosion Solution

Combined rock fall / erosion control solution



Product Information

Linklok® is a combination of the proven turf reinforcement mat (TRM) Landlok®450 and the unique features of double twist mesh provided by the Link rock fall netting product. Each component is supplied as separate items to ensure that the highly flexible nature of the Landlok® product can be laid and pinned, such that immediate and long term intimate soil contact is achieved to provide positive soil erosion benefits. Overlying the Landlok® 450 TRM is an anchored Link rock fall netting product to provide good mechanical strength against superficial surface failures and potential rock movement. Linklok® may be supplied using the Landlok® 450 or Pyramat® High performance Turf Reinforcement Mats (HPTRM) when required. Global Synthetics will provide additional specification details upon client request.

Landlok® 450 is a 100% synthetic, highly UV stabilised product that uses a unique X3® tri-lobal polypropylene fibre that has been demonstrated to provide increased strength and superior growth environment than traditional monofilament fibres used in competitive products. Landlok® 450 is additionally stitched along the length direction of the roll and laid between an upper and lower layer of netting to provide increased tensile strength.

Link double twist mesh is traditionally supplied in a 2m wide by 50 m long roll (other roll lengths and roll widths are available). The product is woven in the unique double twist weave that minimises the potential to unravel. Additionally the Link® netting is protected by a licensed coating process known as Galfan® which is a 95% Zn/5%Al (with rare earth mischmetal additive) alloy that has been independently tested to demonstrate a life of 3-4 times greater than traditional heavily galvanised wire of equal diameter and placed within the same operating environment. Overlying the Galfan® coating is an extruded UV stabilised polymer coating for superior long-term life.

Applications

Linklok® is an ideal solution for steep batters or where loose rock may be present requiring the extra strength of the Link® wire combined with the proven erosion control performance of Landlok® 450 matting.

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Benefits

Linklok® is easy to handle and install. It provides excellent long term erosion control performance combined with the strength of Link® wire mesh for rock control as well.

Link® rock fall netting made from PVC coated hexagonal wire mesh is BBA certified for up to 120 years design life.

Features

- Steel mesh structure allows for greater strength
- Erosion control for rocky slopes
- Still able to maintain excellent erosion control due to the flexible nature of the separate Landlok 450 layer.







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Product Data Sheet

Layer 1 – Mechanical and Physical Properties - Landlok® 450			
Property	**Test Method**	**Unit**	**Result - (MARV)**
Thickness	ASTM D-6525	mm	12.7
Colour	Visual	Visual	Green
Polymer	Composition	Composition	Polypropylene
Polymer Melting point	ASTM D-1505	^{0}C	150
Longitudinal tensile strength	ASTM D-6818	kN/m	6.2
Elongation at break	ASTM D-6818	%	50 max
Transverse tensile strength	ASTM D-6818	kN/m	5.1
Elongation at break	ASTM D-6818	%	50 max
Light penetration (% passing)	ASTM D-6567	%	20
Resiliency	ASTM D-6524	%	90
Flexibility	ASTM D-6575	mg-cm	30,000 avg.
Seeding emergence	ECTC Draft Method #4	%	409
UV resistance @1000 hours	ASTM D-4355	%	>80 retained
Shear Stress (Vegetated)	Large Scale	Pa	479
Roll Size	Manufacturer	m	2.29 x 42.67

Layer 2 – Mechanical and Physical Properties - Double Twist Wire Link Mesh			
Property	**Test Method**	**Unit**	**Result - (MARV)**
Mesh type	ASTM B750 and ASTM A975	cm	8 x 10
Tensile Strength	ASTM A641	kN/m	43
Mass of 95 Zn 5 Al MM Alloy (Galfan®)	ASTM A 856 M-98, Class 80 or EN ISO 10244-2 Class A	g/m^2	245
Diameter of Wire Mesh-Body-Galfan®	EN 10218-2 and EN 10223-3	mm	2.7
Diameter of Selvedge Wire-Galfan®	EN 10218-2 and EN 10223-3	mm	3.4
Average Thickness of Polymer Coating	EN 10245-2	mm	0.5
Diameter of Polymer Coated Wire Mesh-Body	EN 10218-2 and EN 10223-3	mm	3.7
Diameter of Polymer Coated Selvedge Wire	EN 10218-2 and EN 10223-3	mm	4.4
Length Tolerance	Manufacturer	%	1
Width Tolerance	Manufacturer	cm	8 (1 mesh opening)
Roll Length	Manufacturer	m	2
Roll Width	Manufacturer	m	50

About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthethic 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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