

CI/SfB

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Common Arrangement R12

Uniclass

D1372/L141



Landlok®



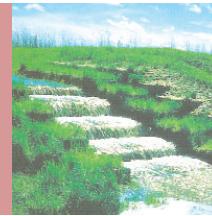
Bio-degradable Erosion Control



Geosynthetics

Landlok®

Bio-degradable Erosion Control



Geosynthetics Limited offers a complete range of degradable Erosion Control Blankets (ECB) and non-degradable Turf Reinforcement Mats (TRM) designed to handle almost any storm water, drainage or erosion prevention application.



Natures answer

The Landlok® range of products control erosion, minimise sediment run-off and crucially; encourage the growth of vegetation. While hard armour such as rock riprap or concrete can be used, its widespread use is costly, unattractive and often unnecessary.

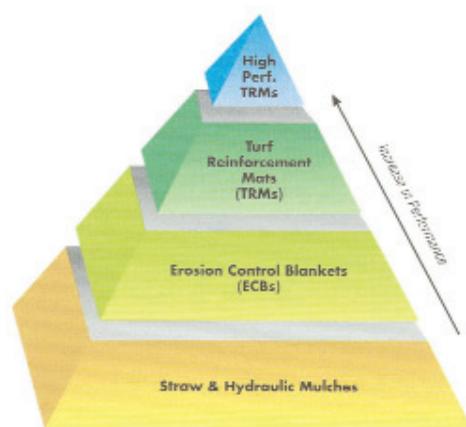
Using Landlok® and its ability to promote vegetation gives you distinct advantages for channel and slope protection.

Advantages:

- Captures 700% more sediment than channels lined with hard armour.
- Gives an environmentally friendly solution.
- More attractive, natural appearance.
- Highly effective protection from the effects of wind and rain.

Erosion Control Blankets and Turf Reinforcement Mats facilitate the growth of vegetation by providing the necessary stability for plants to root and grow.

The Erosion Control Pyramid (below) shows how the Landlok® range can be applied to differing site needs.



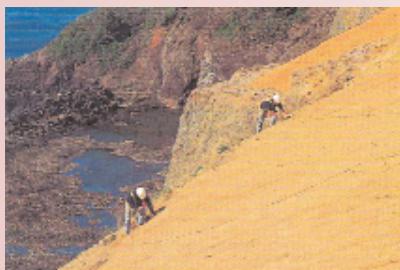
Product function



This channel bottom was reinforced with Landlok® TRM.



By promoting vegetation, designers can provide effective erosion protection in high flow channels, improve water quality, and maintain a more natural appearance.



Landlok® ECB helps protect a newly sealed slope.

Storm water management

Erosion prevention – the most cost-effective solution.

SI Geosolutions' industry leading Landlok® family of products prevent erosion before it occurs. Protecting and promoting the growth of vegetation, they prevent soil from washing away and capture sediment.

Erosion control blankets (ECB)

Channel and Slope Protection

ECB's act as dimensionally stable reinforced mulches to hold seed and soil in place, and degrade over time as vegetation becomes established. Available in a variety of organic and synthetic compositions including straw, coconut and polypropylene, you can choose from a wide range of ECB's to give you the optimal performance and longevity for any project.

Manufactured from re-processed agricultural straw and / or coconut fibres, Landlok® ECB's give you the advantage of reducing disposal costs and waste into landfills. Protecting emerging seedlings and accelerating vegetative development, they gradually decompose, resulting in secure vegetation and providing long-term erosion protection.

Geosynthetics Ltd is a leading dis-

**Please call
01455 617 139**
or email sales@geosyn.co.uk
for further information.

Wide product range

Large stock holding

Next day delivery



Landlok® TRM's are ideal for providing protection and vegetation reinforcement on steep slopes.

Turf reinforcement mats (TRM)

Unlike ECB's, Landlok® TRM's are non-degradable and when vegetated, will provide twice the erosion protection of vegetation alone. Effective from the moment they are installed, they provide immediate erosion protection, vegetative reinforcement and long-term erosion resistance.



Pyramat® HPTRM reinforces vegetation and forms a safe and attractive permanent protection system around this pipe outlet.

Composed solely of synthetic materials, and featuring fibres containing recycled polypropylene, our green coloured TRM's give you superior performance and water-cleansing capabilities. As the preferred alternative to concrete and riprap, TRM's in lining systems for open channels, drainage ditches and steep slopes, give excellent long-term protection and reduce maintenance.

High performance turf reinforcement mats (HPTRM)

For demanding applications such as extreme slopes, wrapped-face slopes, pipe inlets and high-flow channels, the three-dimensional characteristics of Pyramat® are an outstanding alternative to hard armour.

More than ten times stronger than TRM's, highly durable Pyramat® HPTRM is the most effective way to enhance the performance of vegetation. What's more with it's availability in natural shades of tan and green it blends inconspicuously into the surrounding environment.



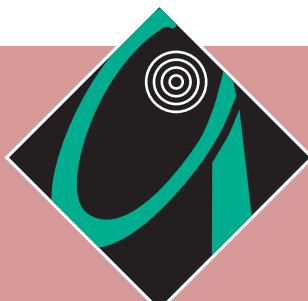
Tan coloured Pyramat® lines a channel running through a residential development in the Southwestern U.S. Reinforced concrete was originally specified for the project, but use of the HPTRM resulted in savings of approximately \$1.2 million (U.S.)

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Product features

Erosion control blankets (ECB)

Channel and slope protection

- Protecting seed and soil while vegetation matures, then degrading over time as vegetation becomes established.
- Improving water quality by promoting the growth of vegetation and filtering sediment from storm water runoff.
- Providing a cost-effective and aesthetically pleasing way to protect against erosion.

Turf reinforcement mats (TRM)

High flow channels and steep slopes

- Landlok® TRM's are designed for durability and stabilised against ultraviolet degradation.
- Permanently reinforce mature vegetation by anchoring the root structure - providing twice the erosion protection of vegetation alone.
- Help to reduce costs - typically between 33 to 50% of the price of traditional hard armour systems, such as rock riprap.

High performance turf reinforcement mats (HPTRM)

Heavy flow channels and extremely steep slopes.

- Ten times stronger than traditional TRM's for the ultimate in permanent erosion protection.
- Three times the ultraviolet (UV) protection of conventional TRM's to withstand the most inhospitable climates.
- Ideal for arid environments or sites where limited vegetation growth is expected.
- Provides exceptional erosion protection from storm water runoff for pipe inlets and outlets.

Geosynthetics Ltd is committed to offering the best solutions for soil stabilisation, erosion control, drainage and environmental protection problems.

Well trained staff are always available to discuss which materials are best suited to any particular application.

Technical specification



Erosion control blankets (ECB)

Product	Description	Application	Life Span	
Landlok S2	Composed of straw fibres stitch-bonded to two nets. Photodegradable netting on top and bottom.	Ideal for low-flow channels and moderate slopes.	One year	
Landlok CS2	A blend of straw and slowly degrading coconut fibre, stitch-bonded to two nets. Photodegradable netting on bottom and UV-stabilised on top.	Ideal for medium slopes.	Two years	
Landlok C2	100% coir fibre stitch-bonded to two nets. Photodegradable, UV-stabilised netting on top and bottom.	Ideal for steep slopes and moderate flow channels.	Three years	

Turf reinforcement mats (TRM)

Product	Description	Application	Life Span	
Landlok TRM 450	Permanent polypropylene, turf reinforcement mat manufactured from 100% synthetic materials using X3 TM fibre technology.	Areas requiring immediate protection, rapid vegetative establishment and outstanding long term erosion resistance. For example open channels, drainage ditches, detention basins and steep slopes.	Non-degradable	

High performance turf reinforcement mats (HPTRM)

Product	Description	Application	Life Span	
Pyramat High performance turf reinforcement mats	Three dimensional, lofty, woven polypropylene geotextile specially designed for erosion control applications.	Designed for the most demanding slope and storm water channel applications.	Non-degradable	

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