



Turf Reinforcement Mats

The primary function of a TRM is to provide permanent (root or stem) reinforcement for the mature vegetation during higher hydraulic flow events where velocities and shear stresses exceed the limits of mature, natural vegetation. A secondary and more temporary function is to collect sediment during the hydraulic flows prior to and while vegetation is being established. The TRM performance increases as the vegetation becomes established and the root structure is entangled within the synthetic mat.

Our Turf Reinforcement Mats are created with a long-lasting, UV stabilised fibre, to withstand Tropical North Queensland conditions. The fibres are represented as an "X" shape, giving more surface area to catch moisture, seed, sediment and soil, resulting in a faster, fuller vegetation for your slope. Mats are available in either a Green or Tan colour, creating a natural visual appearance to suit the surrounding environment.

Landlok 450

Landlok 450 consists of a dense web of stitch-bonded fibres, woven into a 3D structure. It is a light mat and easy to install, requiring no heavy equipment. This matting is suitable for use on moderate flow channels and steepened slopes.



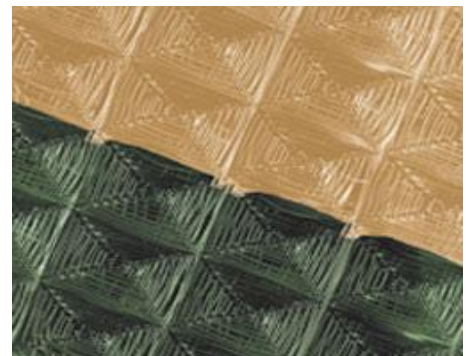
Landlok 300

Landlok 300, unlike its 450 counterpart, provides a stronger strength that enables it to be used not only on moderate flow channels, but for steep soil slopes and bank protection where greater loading and survivability is required. It is formed into a pyramid-style weave, creating a very high soil/root interlocking system and providing high reinforcement capacity.



Pyramat

Pyramat resembles a "2nd generation" turf reinforcement matting, having the ability to provide up to 10 times the tensile capacity of its fellow Landlok versions. It is most beneficially used in high flow channels and extreme slopes. Its tightly woven, 3D structure



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Specification Sheet

Property	Test Method	Landlok 450	Landlok 300	Pyramat
Physical				
Mass/Unit Area	ASTM D-6566	340g/m ²	254g/m ²	455g/m ²
Thickness	ASTM D-6525	10.1mm	6.35mm	10.2mm
Light Penetration (%Passing)	ASTM D-6567	20%	50%	10%
Colour	Visual	Green or Tan	Green or Tan	Green or Tan
Mechanical				
Tensile Strength MD/CD	ASTM D-6818	5.8 x 4.3 kN/m	29.2 x 26.2 kN/m	58.4 x 43.8kN/m
Elongation	ASTM D-6818	50% (max)	50% (max)	65% (max)
Resiliency	ASTM D-6524	90%	70%	80%
Flexibility	ASTM D-6575	30,000mg-cm (avg)	255,000mg-cm (avg)	615,000mg-cm (avg)
Endurance				
UV resistance	ASTM D-4355	>80% @ 1000 hours	>90% @ 3000 hours	>90% @6000 hours
Performance				
Velocity* (Vegetated)	Large Scale	5.5m/sec	6.1m/sec	7.6m/sec
Shear Stress* (Vegetated)	Large Scale	479 Pa	576 Pa	718 Pa
Manning's "n"	Calculated	0.025	0.030	0.026
Seedling Emergence	ECTC Draft Method #4	409%	283%	296%
Roll Sizes		2 x 42.2m	2.6 x 32.3m	2.6 x 27.4m