ECC3

High Performance
Turf Reinforcement Matting

TECHNICAL DATASHEET	G 038 003
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ECC3 is made with a matrix of UV stabilised Polypropylene meshes filled with a uniformly distributed 100% coconut fibre to assist with vegetation establishment. ECC3 is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels.

PROPERTY	TEST METHOD	TEST VALUE	
PHYSICAL			
Roll Size	2.4 m x 34.3 m		
Mass/Unit Area	ASTM D-6566	449.2 g/m^2	
Thickness	ASTM D-6525	8.64 mm	
Light Penetration (% Passing)	ASTM D-6567	14%	
Colour	Visual - Netting	Black	
	Visual - Matting	Brown	
MECHANICAL			
Tensile Strength MD/TD	ASTM D-6818	11.70 kN/m / 9.38kN/m	
Elongation MD/TD	ASTM D-6818	25% / 15%	
ENDURANCE			
UV Resistance @ 1000 hours	ASTM D-4355	98%	
SLOPE PERFORMANCE DESIGN VALUES*			
C-FACTORS	ASTM D-6459	0.00	
SLOPE LENGTH (L)	≤ 3:1	3:1 - 2:1	≥ 2:1
< 15m	0.001	0.005	0.040
15m - 30m	0.002	0.008	0.051
> 30m	0.005	0.010	0.062
CHANNEL PERFORMANCE DESIGN VALUES*			
Unvegetated Shear Stress	ASTM D-6460	153.22 Pa	
Unvegetated Velocity	ASTM D-6460	3.51 m/s	
Vegetated Shear Stress	ASTM D-6460	574.56 Pa	
Vegetated Velocity	ASTM D-6460	7.62 m/s	
Manning's N		0.024	

ISO 9001

BUREAU VERITAS
Certification

This product has been manufactured under the controls established by a Bureau Veritas certification approved management system that conforms with ISO 9001:2015. Bureau Veritas Certification certificate number NZ001832-2

*Large Scale Results obtained by a 3rd Party GAI Accredited Independent Laboratory.

The listed typical values are guiding values, achieved in our laboratories and/or independent testing institutes.

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