US CONSTRUCTION FABRICS LLC

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Wholesale Distribution ***CONSTRUCTION FABRICS, LINERS, & ENVIRONMENTAL PRODUCTS***

ECP-2™ Polypropylene Turf Reinforcement Mat

Description:

The ECP-2™ is made with uniformly distributed 100% green polypropylene fiber and two medium weight polypropylene nets securely sewn together with UV stabilized thread. The tightly compressed blankets are wrapped and include a product label, code and installation guide. The blankets are palletized for easy transportation. The ECP-2™ is a permanent turf reinforcement mat and is suitable for 1:1 slopes and high-flow channels. The ECP-2™ meets Type 5.A, 5.B, and 5.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.18.

Matrix:	1	2
	Green or Tan Polypropylene Fiber	

Netting:	Type	Net Color
Top:	Medium weight 5# PMSF UV Stabilized Polypropylene	Black
Middle:	None	
Bottom:	Medium weight 5# PMSF UV Stabilized Polypropylene	

Net Opening:	Top	Middle	Bottom
	0.5" x 0.5"		0.5" x 0.5"

Thread:	Type	Color
	UV Stabilized Thread	Black

Roll Sizes:	Standard	"A" Size	Mega
Width:	7.5 ft 2.3 m	3.75 ft 1.1 m	15 ft 4.6 m
Length:	120 ft 36.6 m	240 ft 73.2 m	120 ft 36.6 m
Weight ±10%:	75 lbs 34.0 kg	75 lbs 34.0 kg	150 lbs 68.0 kg
Area:	100 yd^2 83.6 m^2	100 yd^2 83.6 m^2	200 yd^2 167.2 m^2
#/Pallet:	9	6	9

Index Value Properties*:

Property	Test Method	Typical			
Mass/Unit Area	ASTM D6475	12.00	oz/yd^2	406.9	g/m2
Thickness	ASTM D6525	0.40	in	10.16	mm
Tensile Strength-MD	ASTM D6818	400	lb/ft	5.84	kN/m
Elongation-MD	ASTM D6818	31	%		
Tensile Strength-TD	ASTM D6818	400	lb/ft	5.84	kN/m
Elongation-TD	ASTM D6818	19.0	%		
Light Penetration	ASTM D6567	18	%		
Density / Specific Gravity	ASTM D792	0.915	%		
Water Absorption	ASTM D1117	0	%		

*May differ depending upon raw material variations

Bench-Scale Testing* (NTPEP***):

Test Method	Parameters	Results
ECTC Method 2 Rainfall	50mm (2in) / hr-30 min	SLR**=5.53
	100mm (4in) / hr-30 min	SLR**=5.38
	150mm (6in) / hr-30 min	SLR**=5.22
ECTC Method 3 Shear Resistance	Shear at .50 in soil loss	2.72 lb/ft^2
ECTC Method 4 Germination	Top soil; Fescue; 21 day incubation	469 %

*Bench scale tests should not be used for design purposes.

**Soil Loss Ratio=Soil Loss Bare Soil/Soil Loss with RECP=1/C-Factor

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Slope Performance Design Values*:

Property	Test Method	Value	
C-Factors	ASTM D6459	0.01	
Slope Length (L)	**≤ 3:1**	**3:1-2:1**	**≥ 2:1**
< 50 ft (15 m)	0.012	0.025	0.092
50 ft – 100 ft	0.036	0.065	0.115
>100 ft (30 m)	0.080	0.108	0.145

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

Channel Performance Design Values*:

Property	Test Method	Value			
Unvegetated Shear Stress	ASTM D 6460	2.60	lbs/ft^2	124.49	Pa
Unvegetated Velocity	ASTM D 6460	10.0	ft/s	3.05	m/s
Vegetated Shear Stress	NA	12.0	lbs/ft^2	574.56	Pa
Vegetated Velocity	NA	20.0	ft/s	6.10	m/s
Manning's N (Value Represents a Range)		0.028			

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

Revised 1/1/2014