

Technical Specifications for  
**Nedia PTRM 440**

Nedia PTRM 440 is a Permanent Turf Reinforcement Mat made with uniformly distributed 100% green polypropylene fiber and two heavy weight polypropylene nets securely sewn together with UV stabilized thread and is suitable for slopes 1:1 and high flow channels.

**Index Value Properties\*:**

Property	Test Method	Typical Value	
		English Units	Metric Units
Mass/Unit Area	ASTM D6566	12 oz/sq.yd	406.8 gm/sq.m
Thickness	ASTM D6525	0.40 in	10.2 mm
Tensile Strength (MD x TD)	ASTM D6818	400 x 400 lb/ft	5.8 x 5.8 kN/m
Elongation (MD x TD)	ASTM D6818	30.5% x 19 %	
Light Penetration	ASTM D6567	14%	
Density / Specific Gravity	ASTM D792	0.915 g/cu.m	
Resiliency	ASTM D6524	80%	
UV Resistance	ASTM D4355-1000 hr	82%	
Manning's N	Observed	0.028	

**Channel Performance Design Values\*:**

Property	Test Method	Typical Value	
		English Units	Metric Units
Unvegetated Sheer Stress	ASTM 6460	2.25 psf	108 Pa
Unvegetated Velocity	ASTM 6460	10 ft/sec	3.0 m/sec
Vegetated Sheer Stress	ASTM 6460	12.0 psf	574 Pa
Vegetated Velocity	ASTM 6460	20.0 ft/sec	6.1 m/sec

\*Large-Scale Results obtained by 3<sup>rd</sup> Party GAI Accredited Independent Laboratory

**Standard Roll Sizes: 8' x 112.5' (2.44m x 34.3m) – 100 sy/roll**

