

**TURF REINFORCEMENT MAT (TRM) - GS 50**

GreenSolutions™ GS 50 TRM is a machine stitched Heavy-Duty Polypropylene Turf Reinforcement Mat utilized for protection of shorelines, channels, and extreme slopes. GS 50 is comprised of an evenly distributed matrix of U.V. stabilized polypropylene/synthetic fibers that are stitch-bonded between two layers of biaxially oriented Heavy-Duty polypropylene netting. The fiber and netting components are stitched on 1.5" centers using a polypropylene thread. All components used to manufacture GS 50 are non-biodegradable and are resistant to U.V. and chemical degradation.

GS 50 is designed to achieve a functional longevity greater than 3 years, in order for to provide for sufficient vegetation establishment. GS 50 offers both long-term and immediate protection to shorelines, channels, and extreme slopes. The open area of GS 50 allows for soil filling and further seed germination, which in time creates a matrix of soil, roots, and vegetation that will protect your project for years to come.

PROPERTY	TEST METHOD	ENGLISH	METRIC
Roll Size		8 ft X 112.5 ft	2.4 m x 34.29 m
<b>Physical</b>			
Mass / Unit Area	ASTM D 6566	10.0 oz / yd <sup>2</sup>	340 g / m <sup>2</sup>
Thickness	ASTM D 6525	0.40 in	10.1 mm
Light Penetration (% Passing)	ASTM D 6567	20%	20%
Color	Visual	Green	
<b>Mechanical</b>			
Grab Tensile Strength	ASTM D 6818	400 x 300 lb / ft	5.8 x 4.3 kN / m
Grab Elongation	ASTM D 6818	50% (max)	50% (max)
Resiliency	ASTM D 6524	90%	90%
Flexibility	ASTM D 6575	0.026 in / lb (avg)	30,000 mg / cm (avg)
<b>Endurance</b>			
UV Resistance @ 1000 hours	ASTM D 4355	80%	80%
<b>Performance</b>			
Velocity <sup>3</sup> (Vegetated)	Large Scale	18 ft / s	5.5 m / s
Shear Stress <sup>3</sup> (Vegetated)	Large Scale	10 lb / ft <sup>2</sup>	479 Pa
Manning's "n" <sup>4</sup> (Unvegetated)	Calculated	0.025	0.025
Seedling Emergence	ECTC Draft Method #4	409%	409%

- All values are minimum average roll values unless otherwise stated.
- Longevity may vary depending on the area in which the product is installed.

Manufactured by: Industrial Fabrics – 510 O' Neal Lane – Baton Rouge, LA 70819  
 225-273 9600 Phone – 225-273 0440 Fax  
[www.greensolutions.us](http://www.greensolutions.us)

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT FURNISHED HEREUNDER OTHER THAN AT THE TIME OF DELIVERY IT SHALL BE OF THE QUALITY AND SPECIFICATION STATED HEREIN. ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY EXCLUDED, AND, TO THE EXTENT THAT IT IS CONTRARY TO THE FOREGOING SENTENCE, ANY IMPLIED WARRANTY OF MERCHANTABILITY IS EXPRESSLY EXCLUDED. ANY RECOMMENDATIONS MADE BY SELLER CONCERNING THE USES OR APPLICATIONS OF SAID PRODUCT ARE BELIEVED RELIABLE AND SELLER MAKES NO WARRANTY OF RESULTS TO BE OBTAINED. IF THE PRODUCT DOES NOT MEET IFI CURRENT PUBLISHED SPECIFICATIONS AND THE CUSTOMER GIVES NOTICE TO IFI BEFORE INSTALLING THE PRODUCT, THEN IFI INC. WILL REPLACE THE PRODUCT WITHOUT CHARGE OR REFUND THE PURCHASE PRICE.