

PERMANENT TRMS

Turf Reinforcement Mats



Engineered Solutions for Permanent Vegetated Designs

When site conditions exceed the capabilities of degradable erosion control blankets, our Turf Reinforcement Mats (TRMs) provide the necessary structural backbone.

Designed to reinforce vegetation and stabilize soil in high-flow and high-slope environments, these mats transform natural green spaces into permanent, reinforced assets.

MKB TRMs are categorized into three distinct types, each offering advantages in specific site applications:

- VMAX® Composite TRMs
- Double Net Poly-Fiber TRMs
- Triple Net TRMs

General Details:

- High-performance protection of topsoil from wind and water erosion, with the ability to support quick, healthy vegetation growth.
- Independently tested for slope stability and channel flow performance.
- Permanent 3-D mat structure that offers reinforcement of vegetation growth points.
- Incorporates fiber matrix to supplement the net structure to improve ground cover and moisture retention properties.
- No soil infilling or mat removal required.



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PRODUCT CATEGORY	FILL	NETTING LAYERS	NETTING MATERIAL	TYPICAL APPLICATION	FHWA-FP14 / ECTC CATEGORY	SHEAR STRESS (lbs/ft ²)
PERMANENT TURF REINFORCEMENT MATS						
PP5-8	100% synthetic UV stabilized fill 8oz/yd ²	Double	UV stabilized polypropylene	1:1 and Greater Slopes, Medium to High Flow Channels, Stream Banks, Shorelines	5A / 5A	8.0 (vegetated)
PP5-10	100% synthetic UV stabilized fill 10oz/yd ²	Double	UV stabilized polypropylene		5C / 5C	12.0 (vegetated)
PP5-12	100% synthetic UV stabilized fill 12oz/yd ²	Double	UV stabilized polypropylene		5C / 5C	12.0 (vegetated)
ECSC-3	70% straw 30% coconut coir	Triple	UV stabilized polypropylene		5C / 5D	10.0 (vegetated)
ECC-3	100% coconut coir	Triple	UV stabilized polypropylene		5C / 5D	12.0 (vegetated)
ECP-3	100% synthetic	Triple	UV stabilized polypropylene		5C / 5D	14.0 (vegetated)
S200	100% straw	Composite Triple	UV stabilized polypropylene, Corrugated center net		5C / 5D	10.0 (vegetated)
SC250	70% straw 30% coconut coir	Composite Triple	UV stabilized polypropylene, Corrugated center net		5C / 5D	10.0 (vegetated)
C350	100% coconut coir	Composite Triple	UV stabilized polypropylene, Corrugated center net		5C / 5D	12.0 (vegetated)
P550	100% synthetic	Composite Triple	UV stabilized polypropylene, Corrugated center net		5C / 5E	14.0 (vegetated)