



Specification Sheet

PS42

The PS42 turf reinforcement matting from ErosionControlBlanket.com is manufactured from a composition of 67% polypropylene fiber and 33% agricultural straw stitched between a black UV stabilized polypropylene top net with a mesh size of 1.34 x 1.27 cm (0.53 x 0.5 in) and a black UV stabilized polypropylene bottom net with a mesh size of 1.59 x 1.59 cm (0.626 x 0.626 in). The “PS” and “4” represent the polypropylene and straw fiber applied at a minimum of 400 g/m² (0.75 lbs/yd²) and the “2” represents that the mat is netted on the top and bottom sides.

The PS42 is a permanent turf reinforcement mat. The mat is sewn together on 38.1 mm (1.5 in) centers, with UV Stabilized polypropylene black thread. Each roll of PS42 is packaged in clear shrink-wrap with a teal band and includes installation instructions.

Index Test Results From Bench & Large Scale Testing (TRI Environmental Labs or NTPEP)

Test Method – Description	Parameters	Test Result
ASTM D6475 – Mass per Unit Area	Index Test	12 oz/sq. yd.
ASTM D4355 – UV Stability	Index Test	90% at 500 hours
ASTM D6818 – Tensile Strength Machine Direction (MD)	Index Test	31.0 lb/in @ 22.9%
Transverse/Cross Direction (TD)	Index Test	15.4 lb/in @ 25.6%
ASTM D6525 – Thickness	Index Test	0.711 in
ASTM D6567 – Ground Cover/Light Penetration	Index Test	87.2%/12.8%
ASTM D6460 – Unvegetated Shear Stress Large-Scale Channel Erosion Testing	Large Scale Test	3.2 psf
ECTC Method 3 – Determination of Unvegetated RECP Ability to Protect Soil from Hydraulically-Induced Shear Stresses Under Bench-Scale Conditions - ASTM D7207	Regression (power curve)	3.2 psf @ ½ in soil loss

Design Values

- C Factor .056
- Unvegetated Maximum Permissible Shear Stress = 3.2 lbs/ft² (153.2 Pa)
- Vegetated Maximum Permissible Shear Stress = 13.8 lbs/ft² (660.7 Pa)
- Maximum Flow Velocity Unvegetated = 11.4 ft/s (3.47m/s)
- Maximum Flow Velocity Vegetated = 16.9 ft/s (5.15 m/s)

Standard Roll Details

Width	2.44m (8ft)	4.88m (16ft)
Standard Length	25.7m (84.3ft)	25.7m (84.3ft)
Area	62.7m ² (75yd ²)	125.4m ² (150yd ²)
Weight ±10%	28kg (61lb)	56kg (122lb)

Highway Roll Details

Width	2.44m (8ft)	4.88m (16ft)
Standard Length	102.8m (337.5ft)	102.8m (337.5ft)
Area	250.8m ² (300yd ²)	500m ² (600yd ²)
Weight ±10%	112kg (244 lb)	224kg (488 lb)