



## TURF REINFORCEMENT MAT

### DEFINITION AND PURPOSE:

A turf reinforcement mat (TRM) is a 3-dimensional permanent synthetic mat that provides a matrix to greatly reinforce the root system of the desired vegetation for permanent erosion protection in high flow channels and on critical slopes. May provide erosion protection equivalent to stone or concrete liners.

### APPROPRIATE APPLICATIONS:

Typically installed on seeded areas for permanent use. May be used on steep slopes or grass-lined channels with increased water flow velocities and increased shear stress.

### CONDITIONS FOR EFFECTIVE USE:

Several factors, such as soil conditions, steepness and length of slope, depth of flow, runoff velocities, and time required to establish desired vegetation, influence the choice of product. Manufacturer's recommendations should be followed.

### WHEN BMP IS TO BE INSTALLED:

Dependent on intended use-immediately after completion of a phase of grading, or seeding of vegetation.

### STANDARDS AND SPECIFICATIONS:

Follow manufacturer's recommendations and specifications, particularly noting requirements for check slots, edge entrenchment, fastening devices (staples), and the need for firm contact with the soil.

### OPERATION AND MAINTENANCE PROCEDURES:

Inspect every week and after every ½" storm event until adequate vegetation is established. Repair erosion and/or undermining at the top of the slope. Repair undermining beneath mats-pull back the mat(s), fill and compact eroded area, revegetate and then secure mat(s) firmly. Reposition or replace mats that have moved along the slope or channel and secure firmly. Replace damaged mats.

### SITE CONDITIONS FOR REMOVAL:

Typically turf reinforcement mats are permanently left in place.

### TYPICAL DETAILS:

EC-11



TRMs being used as a channel lining. Checks dams are in place until vegetation is established