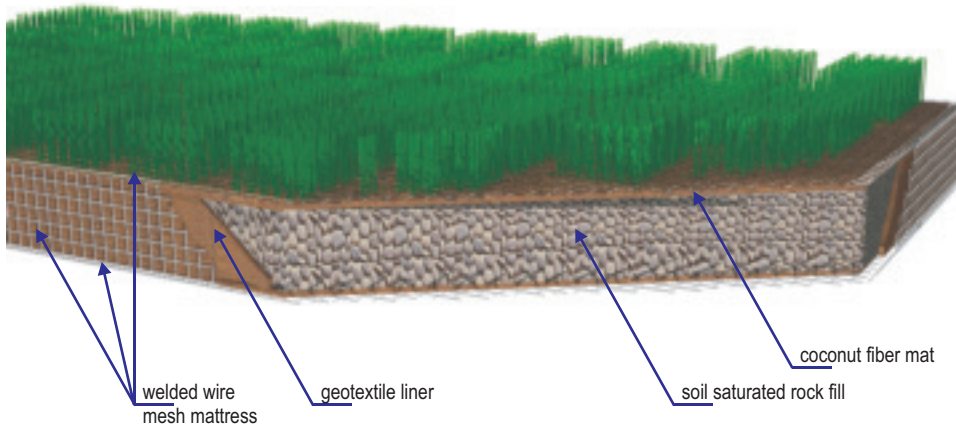


# EcoMattress Systems



## Slope Protection & Naturalized Environment

Modular Gabion Systems EcoMattress combines the proven\* slope and channel protection to control erosion and streambank movement while providing a medium for rapid plant growth. (Refer to guidelines below.)

EcoMattresses retain the selected soil media beneath the turf reinforcement mat held securely in place by the welded wire mesh mattress lid. Soil stability is maintained enabling rapid establishment of vegetation. Interior lining of non-woven filter fabric retains soils even in high velocity flows. EcoMattresses quickly become covered with vegetation and appear as a natural slope.

### GENERAL GUIDELINES FOR USE OF ECOMATTRESS FOR CHANNEL REVETMENTS

EcoMattress Thickness In. (cm)	Stone Diameter In. (cm)	Critical Velocity ft/sec (m/sec)	Maximum Velocity ft/sec (m/sec)
6 (15.2)	3-6 (7.6-15.2)	9 (2.7)	14 (4.3)
9 (22.9)	3-6 (7.6-15.2)	12 (3.7)	17 (5.2)
12 (30.5)	3-6 (7.6-15.2)	15 (4.6)	19 (5.8)

### SPECIFICATIONS

Construction of Mattress: .....Meets ASTMA974-97  
 Mesh Size: .....1½" x 3"  
 Wire: .....13½ gauge low carbon soft temper  
 Metallic Coating:.....Meets ASTMA641, Class III galvanized  
 Plastic Coating:.....Fuse-bonded PVC powder coating  
 Interior Filter Fabric Liner:.....8 oz/sq. yd. synthetic non-woven  
 Turf Reinforcement Mat:.....8 oz/sq. yd. polymer reinforced coconut fiber

Weight per square foot of EcoMattress based upon volumes of 70% 3"- 6" limestone and 30% soil fill.

6" Thick .....55 lbs rock fill only / 72 lbs rock and soil  
 9" Thick .....82 lbs rock fill only / 108 lbs rock and soil  
 12" Thick.....110 lbs rock fill only / 143 lbs rock and soil

\* US Army Corps of Engineers Technical Report H-75-19, December, 1975.

## Features

- proven embankment stabilization solution
- provides protection for germinating seeds and tender new growth to promote rapid re-
- soils are better retained in the mattress to support more complete vegetation coverage
- more weight per square foot than concrete block system
- more resistant to high flow rates



### MODULAR GABION SYSTEMS

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