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

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

SPECIFICATIONS

Construction of Mattress: .................................................................Meets ASTM A974-97
Mesh Size: .................................................................................................................................1½” x 3”
Wire: ..........................................................................................................................13½ gauge low carbon soft temper
Metallic Coating: ..................................................................................Meets ASTM A641, 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