

Cable Concrete™



erosion
control
system



*Articulating
Concrete
Block
Mats*



protect **TODAY** by _____
building for **TOMORROW**


EROSION CONTROL SYSTEMS, L.L.C.
A Division of Royal Enterprises America

erosion control



Cable Concrete™



Protects underlying subgrades while allowing beneficial vegetative growth. This mattress system consists of concrete blocks, integral stainless steel cables which are poured into the blocks and pre-attached geotextile fabric.

The innovative design gives the system the flexibility to adapt to ground movement and grade changes while maintaining stability. Cable Concrete is a cost-effective solution for long-term control of erosion for virtually any size/shape project.



Stability Hydraulic conditions and flow velocities determine the block size and layout design required to stabilize erosive forces. The Cable Concrete mats, with interwoven cable and mat-to-mat clamping, become one homogeneous control system. Cables are precast through each block, assuring both lateral and vertical stability.

Flexibility The pyramidal shape of the blocks provides for large angular variability. This flexibility allows the system to adapt to abrupt changes in grade contours.

Permeability The open area of the mat allows for sufficient transfer of water between the subgrade and the system surface. The attached geotextile fabric allows for relief of hydrostatic pressure without permitting migration of subgrade fines.



Vegetation Native and exotic grasses, broadleaf plants and shrubs will grow in the open area of the mat if desired. Plants' root systems actually enhance the stability of the system over time. Because the cables are precast into the system, blocks can be removed for larger plantings without compromising system integrity. In addition, the smooth surface allows for pedestrian and vehicle access, as well as easy maintenance of vegetation.

Reusable Cable Concrete mats can be used for temporary erosion control, for construction traffic or emergency situations. The mats can then be lifted for more permanent placement elsewhere or put into storage for the next project.

applications

- Channel linings
- Dam/spillway overflow protection
- Lakeshore protection
- Landfill drainage systems
- Boat ramps
- Stream and river bank stabilization
- Slope protection
- Bridge pier and abutment scour protection
- Stormwater pipe and box culvert outlets
- Fire lanes
- Access roads and low-water crossings
- Temporary/emergency erosion control



“Camp Ripley uses Cable Concrete block mat system to control erosion in several locations around our training facility - riverbank, lakeshore and water crossings. We are very pleased with its performance and intend to continue using Cable Concrete for our erosion control needs in the future.

*JAY BREZINKA - Environmental Specialist
US Army/National Guard, Camp Ripley, MN*



benefits



- Innovative design gives the system the flexibility to adapt to ground movement and grade changes while maintaining stability.
- Subgrade preparation time and costs are reduced due to the flexible properties of the mats.
- Hydraulic conditions and flow velocities are considered when determining block size and layout design, so you get the optimal vertical and lateral stability.
- Permits sufficient water transfer between the subgrade and system surface while the geotextile fabric allows hydrostatic pressure relief.
- Open areas within the mats permit plant growth which enhances the system's stability over time.
- Loop cables on mat edges for mat-to-mat connection or optional anchoring.
- Air-entrained concrete for durability and freeze-thaw fracture resistance.
- Royal will supply detailed engineering expertise to aid in the design of your project.
- Remove individual blocks for larger vegetation plantings without compromising structural integrity.
- Exceeds both federal and state D.O.T. requirements.
- Complete engineering analysis, with flume testing, has been conducted by the University of Windsor, Ontario, Canada and the University of Minnesota.

For more information, call:

1-800-817-3240


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