



ER-CON TECHNOLOGIES

Premier Erosion Control Installations

Er-Con Technologies Flexible Concrete Revetment™ Systems

**Uniquely Designed and Engineered Solutions
for Soil Retention and Stabilization**

Er-Con Technologies' Flexible Concrete Revetment (FCR) Systems serve as a uniquely engineered and designed erosion control and soil stabilization system. The installed cost of a system is normally less than that of conventional techniques. Because these systems are designed to vent hydrostatic pressure and flex under loads that would cause rigid structures to fail, the Er-Con Technologies' approach provides a more permanent solution.

Er-Con Technologies has completed revetment projects on a wide variety of commercial, governmental and residential

property applications. Typical facilities include:

- Railway, and Track Structures
- Utility Exposures
- Highways, Roads and Bridges
- Private Residences/Offices



Technically Engineered

No matter how large or small a project may be, every Er-Con Technologies system is technically engineered to facilitate soil conditions and retention demands. The first step includes an inspection of the project site. Soil samples are obtained and analyzed along with topographical information. From there, slope stability and pressure coefficients are calculated for producing design specifications and parameters.



Aesthetic Appeal

Although long-term retention and durability is the primary objective, Er-Con Technologies also takes into consideration the importance of blending each system with the surrounding environment in a functional manner. Trees, outfalls, pipeline crossings, etc. are easily accommodated into the design. The flexibility inherent within Er-Con Technologies' system allows beaches, promenades, stairways and planters to all be incorporated in the final product.

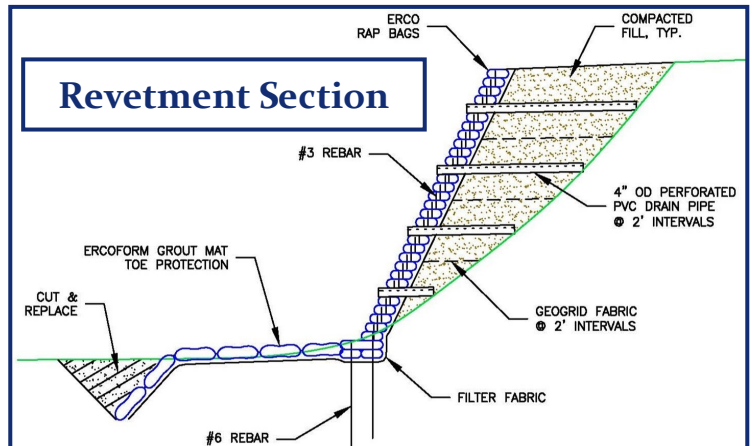
Typical Installation Procedure

In contrast to conventional flexible concrete methods, installation of Er-Con Technologies' FCR system is a streamlined procedure normally performed with light equipment and minimal disruption to the surrounding environment.

The site is cleared and prepared to accommodate a wall slope that can vary between 40° and 70° depending on soil conditions and retention demands. The foundation is slot-trenched and secured with reinforcement pins. When required, an articulating toe is attached to the foundation allowing the grout flexibility necessary to prevent erosion from taking place beneath the revetment structure. Bag units are then layered in rows to form a retention wall. Revetment reinforcement dowels are driven through each bag, securing each unit to the lower row in a running bond configuration. Thus, one contiguous structure is formed. Geo-textile fabric is lined behind the wall which will allow water to drain but prohibit soil from penetrating through the structure.

As the height of the wall increases, fill dirt is placed between the structure and the existing embankment at successive revetment course intervals called lifts. With each lift, the fill-dirt is securely packed with proper tamping equipment.

In critical installations, geogrid mesh material is placed between fill-dirt lifts as a high-tech method of soil reinforcement. Above each geogrid lining a 4" perforated drain pipe is installed which vents water presence and eliminates hydrostatic pressure build-up.



Additional Er-Con Services

Er-Con Technologies is the acknowledged leader in erosion control techniques wherever land and water meet. Er-Con's expertise involves the design and installation of proven systems used on projects including, but not limited to:

- Embankment Protection
- Shoreline Stabilization
- Outfall Structures
- Canal Lining
- Pipeline Protection
- Drop Structures
- River Stabilization
- Pipe Supports
- Pile Scour Protection
- Velocity Realignment in Rivers



Er-Con Technologies

7201 Fairbanks N. Houston
Houston, Texas 77040
Phone: 713-460-4601
www.er-contech.com

