

## Slope INTRODUCTION

GeoCells were invented in the early 80's and patented by the United States Army Corps of Engineers to stabilize soft soils and construct roads for heavy load applications. Since their inception they are now used for various civil applications such as slope and channel protection and retaining walls.

On slope applications the BaseLok™ GeoCells can be filled with angular rock, concrete or with soil and vegetated, angular rock or concrete. The GeoCells confine the infill material creating a stable layer protecting the slope or channel from sheet flow. The GeoCells can be installed on slopes as steep as 60 degrees and on channels with flow velocities greater than 25 fps depending on infill material. BaseLok™ GeoCells is a flexible system that will contour to the sub-grade of a slope or channel reducing preparation time. When filled with soil and vegetated or rock the system is permeable reducing water runoff.

The BaseLok™ Geocell is the perfect system to protect impervious and fragile geomembrane liners. It can be installed directly over the liner without the use of stakes and filled with concrete for impact and puncture protection or filled with soil and APPLICATIONS vegetated to create a natural landscape.



## APPLICATIONS

- Slopes/ Embankments
- Pond Slopes
- Containment Berms
- Geomembrane Protection
- Shoreline Protection
- Landfill Caps
- Complete design review.
- On site installation assistance.

## KEYPOINTS

- Complete design review.
- On site installation assistance.
- Value engineered designs that are project specific and reviewed by experienced professional geotechnical engineers.
- Construction possible on slopes greater than 1:1.
- On channel applications our GeoCells can be filled with rock for velocities up to 10 fps, vegetated soil up to 20 fps and concrete for velocities greater than 20 fps.
- For shore protection the GeoCell allows for the use of a smaller aggregate vs costly rip rap.
- On a concrete application the individual blocks become a flexible system that can conform to sub-grade settlement.

## TEAM SUPPORT

- 39 years as a leader in the Geosynthetic Industry
- 25 years of experience with geocells
- Design assistance
- Complete project evaluation
- Project specific value engineered designs reviewed by professional geotechnical engineers
- On site installation and site assessment assistance

## BENEFITS

- 100% manufactured in the USA
- Complete installation accessories
- Meets or exceeds industry standards





- > **BaseLok™ GeoCell is a confinement system that can be used on slopes creating a stabilized and permeable layer. We offer an engineered system complete with anchoring components.**

## CUSTOMIZATION

- BaseLok™ GeoCell panels can be manufactured to cover the length of the slope or width of the channel to be protected. Evaluation of the soil conditions and geometry of the slope or channel will determine appropriate cell depth for the application as well as anchoring requirements. BaseLok™ GeoCell can be manufactured with depths of 3", 4", 6", or 8" to meet specific project needs.



## EXPERT TECHNICAL SUPPORT

- The superior effectiveness of GeoCell is made even better thanks to our BaseLok™ team's proficiency and technical support. We believe a solution is more than just a product we manufacture or sell; you deserve an attentive and knowledgeable team of professionals working alongside you every step of the way. Our experienced engineers and sales team are fully equipped to cater to your every need, no matter the project.



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**BASELOK™ GEOCELL** may change product specifications without notice. The **BASELOK™ GEOCELL** system is suitable for use in the application described in our literature and on our website, provided proper installation and engineering principles are followed. Professional engineering should be consulted before installation of **BASELOK™ GEOCELL** units to assure proper design. ALL EXPRESSED OR IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. **BASELOK™** is a trademark of Industrial Fabrics, Inc.