

Retaining Walls

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 application. Since their inception, they are now used for various civil applications such as slope and channel protection and retaining walls.

For retaining walls the BaseLok™ GeoCells can be used for both cut and fill applications. The flexible HDPE panels are custom made to the front to back dimensions required by the project engineer. The panels are 6" or 8" tall and typically expand 2.85' into the wall. The walls are further reinforced using a uniaxial grid embedded further into the wall every 3-4 layers of GeoCell. The GeoCells can be easily installed around curves and pipes or other structures.

The BaseLok™ GeoCell panels are constructed with the front facing strip colored green or tan to blend in with the surroundings. The GeoCell panels can be stacked to create a 90 degree wall or they can be stair stepped at every layer to create 3-4 inches of exposed cell for vegetation. The BaseLok™ GeoCells are the perfect green wall solution.

APPLICATIONS

- Gravity walls
- Reinforced steep slopes
- Vegetated wall
- Non-vegetated walls
- Blast protection walls
- Highway embankments
- Channel wall protection
- Gabion replacement
- MSE block wall replacement



KEYPOINTS

- Small 5-person installation crew.
- Installation +30% faster than conventional wall systems.
- Does not require heavy equipment for installation.
- BaseLok™ GeoCell walls are permeable and can be fully vegetated.
- Once fully vegetated the panels are not visible.
- Panels can be filled with onsite materials.
- Low impact development system reducing stormwater runoff.
- Panels are flexible and will not break or get damaged from settlement or movement.
- Fully UV protected.
- HDPE strips will not corrode or degrade.
- Front cells can be filled with rock or concrete to withstand hydraulic forces.
- BaseLok™ GeoCell panels can replace gabion baskets. GeoCell panels do not need rock and can be filled with native soil and be fully vegetated.

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 are permeable green retaining wall structures perfect for low impact development projects that will give the project LEED Green Building Credits.**

CUSTOMIZATION

- The BaseLok™ retaining wall panels are custom manufactured to the exact front to back dimensions as well as the desired front facia strip color to create a natural appearance.



EXPERT TECHNICAL SUPPORT

- The superior effectiveness of FabGrid™ 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.



Industrial Fabrics, Inc.
510 O'Neal Lane Ext
Baton Rouge LA 70819
800 848 4500
www.baselok.com

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