



SINCE 1990

INTEGRATED GEOSYNTHETIC SOLUTIONS

PRODUCT OFFERINGS



EnviroGrid® Geocell
Cellular Confinement System



EnviroGuard®
Geomembrane Liner, HDPE Pipe

ENVIROGRID®

GEOCELL

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Developed in the late 1970's by The U.S. Army Corps of Engineers and manufactured by Geo Products since 1990, geocell cellular confinement has been used worldwide as a solution to soil stabilization issues.

EnviroGrid® geocell is made by ultrasonically welding plastic strips made from 100% virgin HDPE resin to form a honeycomb-like structure.



ENVIROGRID® GEOCELL | CELLULAR CONFINEMENT SYSTEM

EnviroGrid® makes it possible to construct sustainable roads over soft soils. By boosting the weight bearing ability of the rolling course, geocell helps prevent rutting and erosion in high-traffic areas. The amount of infill material is reduced and also allows for locally available aggregate, with less maintenance required over time.

SUB-GRADE IMPROVEMENT
HEAVY LOAD SUPPORT
INCREASED INFILL STABILITY

ACCESS ROADS | HAUL ROADS | RIG PADS

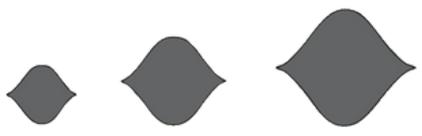


PANEL SIZING

ENVIROGRID® GEOCELL

There are various cell apertures or sizes as well as cell heights offered. The sizing of material is dependent on the specific application for which the product is being used. EnviroGrid® is packaged and shipped in collapsed panels for ease of shipping and handling, and are installation-ready.

CELL APERTURES:
EGA 20 EGA 30 EGA 40



CELL HEIGHTS:
3" 4" 6" 8"



ACCESSORIES:
ENVIROCLIP™ TWIST ANCHOR
ENVIROLOCK PANEL CONNECTION



*Above are the typical cell dimensions that are offered. Custom cell heights can be manufactured for specific projects.

CERTIFIED FIELD TESTING

Large-scale performance testing of all EnviroGrid® products were conducted by a third-party national lab to verify its true field performance. Throughout a series of cyclical load plate tests under various pressures to simulate rolling course traffic, measurements were taken throughout the four tests below.

CYCLIC STRESS AT
SUB-BASE

EXTENDED CYCLIC
AUTOMATED PLATE LOAD

INFILL MATERIAL
DEFORMATION

STATIC STRAIN
MODULUS

INTERNAL CAPABILITIES

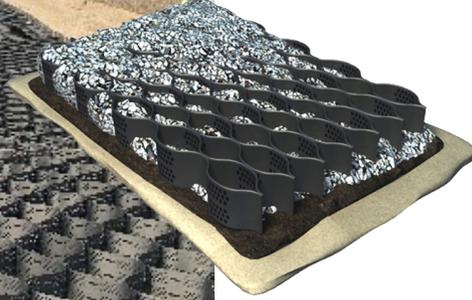
DESIGN & ENGINEERING SUPPORT

- Build-A-Spec Generator Tool
- Installation Support
- Design Calculators
- Specific Cad Details
- Case Studies/Pictures/Videos

www.geoproducts.org/technical-design



BASE STABILIZATION



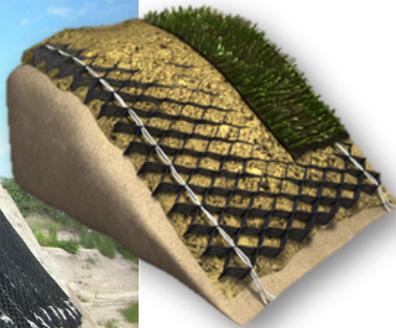
The expanded panels act as a large mat, distributing applied loads over an extended area. The three-dimensional cells increase strength and stiffness of the infill, which boosts their weight-bearing capabilities and allows for the use of permeable aggregates.

CHANNEL PROTECTION



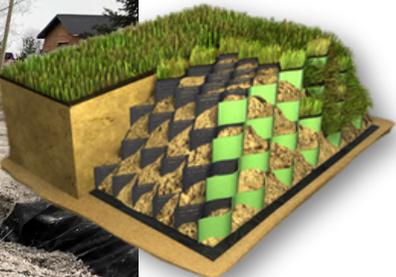
EnviroGrid® is successful at protecting channels by counteracting various flow velocities. It can be laid directly on the slope and properly anchored. Based on the channel characteristics, EnviroGrid® can be filled with angular rock, vegetated soil, or concrete. Geo Products offers the needed anchoring for the system's integrity.

SLOPE EROSION CONTROL



EnviroGrid® placed on slopes will hold infill material in place. The cell walls slow the flow of water down the slope or in areas affected by wave action, reducing the formation of rills, a major cause of soil erosion. Depending on the site specific application, EnviroGrid® can be filled with angular rock, concrete or native soils.

RETAINING WALLS



In very steep slope applications, soils can be retained with a vertical wall structure. Filled with local soils, EnviroGrid® can be used in both cut and fill situations by holding the soil in place and providing drainage throughout the structure. The outer cells can be vegetated, providing an environmentally pleasing look.

PRODUCT BENEFITS

SOIL STABILIZATION APPLICATIONS

MINIMIZE MAINTENANCE

Take control of high-traffic areas by installing EnviroGrid® to prevent erosion and formation of potholes.

REDUCE INFILL MATERIAL

EnviroGrid® allows the use of local infill material and reduces material needed by 2/3, reducing costs even more.

MAXIMIZE STABILITY

The high-strength cell walls increase strength and stiffness of the infill material, which boosts their weight-bearing capabilities.



SOIL STABILIZATION | CASE STUDY

Devon Energy was seeking a cost-effective yet sustainable way to construct haul roads over soft, native soils with poor load-bearing capabilities. The ability to use less expensive on-site material to build the roads while still supporting heavy loads under these conditions were the primary benefits of using EnviroGrid® over alternative methods.

The roads were graded and compacted and the EnviroGrid® panels were installed over a non-woven geotextile fabric. EnviroGrid® was filled with local sands, compacted and ready for traffic. EnviroGrid® provided a reliable system to construct the haul roads over the existing soft soils using locally available infill material. The confinement system keeps the non-cohesive material in place and provides stability to once poor load bearing material.

Please call us at **281.820.5493** or visit our website www.geoproducts.org for full & preliminary design support, CAD drawings, additional detailed case studies and more information.



HDPE LINER SOLUTIONS PIPE PRODUCTS

ENVIROGUARD®

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LINE

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CASE STUDY:
LINER

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ENVIROGUARD® HDPE WATER CONTAINMENT & TRANSFER PRODUCTS



EnviroGuard®, a product line of Geo Products, specializes in offering a line of HDPE geomembrane liner and pipe products for water containment and transfer applications. EnviroGuard® Liner products are custom fabricated in-house or in the field with superior quality control standards. EnviroGuard® Pipe products include both specialty pipe for specific applications, as well as standard HDPE pipe.

ENVIROGUARD® | HDPE LINER & PIPE Serving Industries with a Customized Solution

STORMWATER

RETENTION PONDS
ATHLETIC FIELDS
BERMS/ RESERVOIRS

AGRICULTURAL

IRRIGATION SOURCES
LAND DEVELOPMENT
RESIDENTIAL/COMMERCIAL

CONVEYANCE

ENERGY
MUNICIPALITIES
INDUSTRIAL



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PRODUCT OFFERINGS

ENVIROGUARD® PRODUCT LINE



HDPE & LLDPE
12 MIL - 80 MIL

- ROLL STOCK
- FABRICATION
- INSTALLATION SERVICES*

*Offered in select regions

USE THE QR CODE
To view liner products



EnviroGuard® Liner is available in various sizes and thicknesses, and pre-fabricated to custom dimensions by a team of skilled professionals. Employing superior quality control standards, our geomembrane is conveniently packaged, shipped, and ready to install for a variety of containment solutions.



HDPE & SPECIALTY
1/2"-48" | RD 7-RD 41

- HDPE PIPE
- SPECIALTY RESISTANCE PIPE
- CUSTOM COLORS & SIZES

USE THE QR CODE
To view pipe products



EnviroGuard® offers the most complete line of HDPE pipe and is made from the most advanced materials in the industry. All resins are rated PE-4710 and are offered in a variety of diameters, ratio dimensions and specialty products in order to suit even the most unique applications.

4 ACRE POND INSTALLED BY GEO PRODUCTS

EnviroGuard® Liner was used to line a 4 Acre pond on this Texas property. Even with the rain delays from the August weather, the technicians were able to complete the entire installation in 5 days.



Every pond installation performed by our skilled team of experts, generates a full quality control report which includes full documentation of detailed panel layouts, seam testing to ensure strength, and necessary repairs.

GEO PRODUCTS, LLC

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SUPPLIER

ENVIROGUARD® PRODUCT LINE

GEOMEMBRANE LINER
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