

# LOW IMPACT DEVELOPMENT

Low Impact Development (LID) solutions use and mimic natural processes for infiltration and use on-site features to protect water quality. Layfield carries a diverse line of products to help with your LID strategies.



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# PERMEABLE PAVING SYSTEMS

Design attractive grass and aggregate porous pavements for traffic loading and reduce stormwater runoff on sites.



## STORMTANK® GROUNDPRO™ GRS & GRV

StormTank® GroundPro™ GRS & GRV are flexible permeable pavers used in ground stabilization and protection applications. The system's uniquely engineered design delivers superior load-rating and torsional resistance while the flexible framework allows panels to be installed easily. GroundPro's high compressive strength and permeability make it an ideal eco-friendly alternative to impervious paved surfaces while promoting stormwater infiltration, limiting runoff, preventing soil compaction, and reducing heat island effect. Connecting

## VIEW WEBINAR

*Low Impact Development (LID) strategies have transitioned from suggestions to requirements in recent years, presenting new design challenges. If you are interested in learning about Layfield solutions please be sure to check out our latest webinar on 'Low Impact Development Strategies Using Geosynthetic Materials'.*

**Visit us online at [layfieldgroup.com/webinars](http://layfieldgroup.com/webinars)**

rings at the base of the system means there is connection at the surface to break or corrode over time. GroundPro™ can be vegetated or filled with aggregate and used for parking lots, fire truck lanes, driveways and pathways.



## GEOPAVE® SYSTEM

The GeoPave® Permeable Pavement System provides a confined strengthened aggregate roadway surface and functions naturally as an on-site retention system for stormwater. The system can be designed for heavy loading, including heavy fire trucks.

The GeoPave® units are made from reclaimed polyethylene that are interconnected together with metal "U-Clips," creating a strong load distribution system. Applications include emergency & utility access lanes, lay down yards, roadways, parking lots, driveways, walkways, and trails.



## GEOBLOCK® SYSTEM

The Geoblock® vegetated permeable paving system (Grass Pavers) is made from reprocessed plastics. They provide a series

of interlocking blocks, ideal for moderate traffic areas where natural vegetation is desired. The Geoblock® cell is partially filled with soil and then seeded or sodded with grass. The high-strength cell structure and engineered base carry the traffic loads while protecting the grass from damage or soil compaction.

Geoblock® Grass Pavers are ideal for occasional use vegetated fire lanes, golf course pathways, auxiliary parking lots, and trails in recreational areas.

## STORMWATER RUNOFF MANAGEMENT

The use of LID solutions helps clean stormwater, reduces the load on municipal stormwater systems, and reduces the heat island effect.



## BIOSWALES

Also known as infiltration swales, Bioswales are a form of bioretention designed to slow surface water runoff and help in the removal of stormwater pollutants.

Like standard ditches, they transport large volumes of stormwater to a discharge point. Unlike ditches, they slow down the movement of runoff, allowing the water to be cleaned and filtered along the way. Some of the advantages of Bioswales are that they require little maintenance, they remove pollutants from runoff, and they can recharge the groundwater.



## BRENTWOOD STORMTANK® SHIELD

The StormTank Shield is a stormwater treatment device designed to reduce pollutant discharge through gross sediment removal and oil/water separation. It prevents floatables and oils that enter a structure from directly exiting the outlet pipe, ensuring they are unable to enter the management system and be conveyed back into the environment. This treatment solution reduces water pollution caused by runoff that would otherwise flow freely throughout our neighborhoods and environment.



## BRENTWOOD STORMTANK® MODULE 20

The new StormTank Module 20 Series is a subsurface stormwater storage unit rated for use under standard load applications, such as parking lots and athletic fields. Created for project professionals to achieve a quick turnaround, the Module 20 Series was designed with the contractor in mind.

The Module 20 Series' larger, simplified design allows for quick assembly and requires fewer total units needed for a project without sacrificing storage capacity, reducing installation time and labor costs.



## BRENTWOOD STORMTANK® MODULE 25

The StormTank Module 25 Series is a subsurface stormwater storage unit commonly used for stormwater retention, detention, infiltration, and rainwater harvesting applications. It is load-rated for extreme applications, like heavy truck or under fire access roads, offering maximum strength while allowing for utilization of valuable land.

The Module 25 Series system can be flexibly designed to meet your specific site requirements and achieve compliance with strict runoff regulations. It is easily designed around existing structures and tight constraints, offered in a range of column heights to vary storage capacity and is stackable to reduce installation footprint.



## NUBARRIER® NONWOVEN GEOTEXTILE

NuBarrier™ is a green nonwoven geotextile that acts as a warning barrier but is designed as a microbial digester of hydrocarbons. The geotextile accumulates a biofilm that functions to biologically decontaminate hydrocarbons at a rate of up to 400 grams per m<sup>2</sup> per year, ideal for use under parking lots and within bioswales. The NuBarrier™ geotextile will be used to wrap the Brentwood StormTank® Systems.

## MISCELLANEOUS LID SOLUTIONS

Reduce stormwater runoff, minimize site disturbance, and contribute to green building credits with sustainable solutions for low impact development.



## GEOWEB® TREE ROOT PROTECTION

When construction vehicles and equipment intrude upon a tree's Critical Root Zone, they negatively impact the soil environment through compaction and damage to near-surface roots—ultimately endangering the structural integrity of the tree. By distributing loading and limiting vertical stresses on the soil, the GEOWEB Tree Root Protection (TRP) system preserving the Critical Root Zone from damage, protecting the tree's root mass. GEOWEB TRP systems are especially beneficial in soft soil areas or where no-dig restrictions apply.



## WATTLEFENCE™

WattleFence™ is the next innovation in sediment control, combining the best features of wattles (a.k.a. logs, SRFRs) and silt fence. Western Green has developed a tool that creates a unique and powerful value proposition for the distributor and contractor working to contain sediment-laden flow on site. The finished product is unique in the high-volume shipping and storage, biodegradability, and installation. WattleFence provides all these advantages while providing similar sediment reduction and turbidity reduction as wattles and silt fence. This innovation has been awarded multiple patents.

## ENVIROSLOPE™ GEOGRID WRAP

EnviroSlope™ Geogrid Wrap is an economical system to create attractive vegetated reinforced soil slopes and is recommended for slopes up to 45 degrees. Reinforced slope structures are usually constructed in areas to save space.

Typically the structure delivers advantages in right of way and reduced space that could not be achieved with the slope of an unreinforced embankment. Applications include highway embankment construction, landslide repair, commercial and industrial applications, decreased bridge spans, embankment construction with fine grained soils, reduced embankment footprint in sensitive areas (e.g. parks), arch culvert end treatments, and residential steepened slope structures.



## SHOREMAX® TRANSITION MAT

Flexible, UV-stabilized ShoreMax Transition Mats protect highly erosive areas including shoreline transition zones, channel bottoms and pipe outlets and outfalls. The area vegetates and the shoremax disappears from sight but provides the reinforcement necessary in high shear stress environments. The RevetMax Systems' ShoreMax Mat can also be used for slope drains typically associated with parking lots, roadways, mines and landfills. The RevetMax System ShoreMax Mat can provide soft armoring on shorelines and spillway applications where wave attack can reach critical stages.

