

LOW IMPACT DEVELOPMENT

PROTECT WATER QUALITY AND PROMOTE GROUNDWATER RECHARGE

As cities expand and the demand for prime real estate increases, the loss of green space in city cores is unavoidable. The result is more impermeable surface area replacing vegetated areas, putting a significant strain on the existing stormwater infrastructure.

The detrimental consequences can include increased stormwater treatment costs, reduced water quality, and increased street flooding during significant storm events. Layfield offers a diverse range of low-impact development strategies to help mitigate these adverse effects. Protect your city's water quality while promoting groundwater recharge with Low Impact Development (LID).

[EXPLORE OUR GEOSYNTHETIC SOLUTIONS ►](#)



AQUABOX

Tackle the most difficult stormwater management challenges on today's development sites with the versatility and durability of an underground modular tank system. Aquabox is uniquely designed to create an underground void space to collect stormwater for retention, detention, and infiltration, depending on your specific requirements.

Designed for fast installation, stormwater retention, detention, and infiltration systems created with Aquabox provide efficient flood protection both for the natural and built environment. This underground plastic module temporarily collects rainwater and releases it with a time delay into the stormwater infrastructure, preventing flooding in urban areas.



PERMEABLE PAVING SYSTEMS

Permeable paving systems not only reduce stormwater runoff on sites but can absorb precipitation and allow it to infiltrate into the soil and recharge the local aquifer. Layfield's line of permeable paving systems offers design options for a wide range of permeable vehicular and pedestrian traffic areas – from fire lanes, utility lanes, parking areas, and trails.



▶ GEOPAWE®

With highly-permeable open-graded aggregate infill, GEOPAWE® pavers promote a high percolation rate, limit runoff and perform as a natural on-site retention system.



▶ GEOBLOCK®

With topsoil infill and an engineered base, GEOBLOCK® has high stormwater infiltration rates and is an excellent growing medium – allowing grass to grow faster and stay healthier.



▶ STORMTANK® GROUNDPRO™ GRS & GRV

Flexible permeable pavers used in ground stabilization and protection applications. GroundPro's uniquely engineered design delivers superior load rating and torsional resistance. At the same time, the flexible framework allows panels to be installed easily.

NUBARRIER™ NONWOVEN GEOTEXTILE



NuBarrier™ is an innovative nonwoven geotextile designed with the added benefit of microbial digestion of hydrocarbons. Its unique green color also acts as a warning barrier to protect your infiltration assets. The geotextile accumulates a biofilm that functions to biologically decontaminate hydrocarbons at a rate of up to 400 grams per m² per year, ideal for use under parking lots and within bioswales.

BIOSWALES 'INFILTRATION SWALES'



Also known as infiltration swales, Bioswales are a form of bioretention designed to slow surface water runoff and help remove stormwater pollutants. These low-maintenance systems transport large volumes of stormwater to a discharge point, slowing the velocity and filtering the water.

As an added benefit, bioswales help recharge groundwater. Bioswales can be used in many applications, including pollutant removal, drainage retrofitting, and runoff management.



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