DuoDrain Composite Drainage Products
DuoDrain is the modern, cost-effective alternative to traditional drainage and gas venting methods. This diverse range of geocomposite drainage systems will provide you with practical solutions for a wide variety of groundwater and gas related problems.

Providing unobstructed pathways for water and gasses, these pre-fabricated void formers are light, easy to handle and give consistent performance in the most punishing applications.

DuoDrain provides significant cost and environmental advantages over traditional gravel drainage systems, which can often require large quantities of gravel resulting in increased transport costs.

DuoDrain is manufactured from a three-dimensional polymer core bonded to a geotextile and an impermeable membrane when required. The core provides the drainage void while the geotextile acts as an efficient filter and maintains the integrity of the void. Impermeable membranes prevent the passage of water or gasses - extremely important when protecting buried structures.

### Applications:

- Buried structures
- Landfill capping systems
- Drainage cavity construction
- Erosion control
- Gas dispersal and collection
- Retaining wall drainage
- Storage reservoirs
- Cut off trenches
- Infiltration control
- Sports field drainage
- Leachate collection
- Highway edge drains
- False tunnels
- Green roofs
- Culverts and underpasses
- Hydrostatic relief
- Basement waterproofing
- Roads
- Leak detection
- Railways
- Buildings
**Product functions**

**Structural drainage**

InterDrain and DuoDrain provide high performance drainage systems in the most demanding applications. They can be used horizontally and vertically where buried structures require efficient drainage to relieve external water pressure. This helps to maintain stability, increase life expectancy and protects waterproofing systems. As well as this, the possibility of using on-site fill material makes them an economical and time-saving alternative to traditional drainage.

**Road edge drainage**

Technical studies have proven that Viadrain is one and a half times more efficient than a conventional French drain. These systems require the excavation of a substantial trench, which is then filled with free draining gravel, a time consuming and expensive process.

ViaDrain requires a much narrower trench and avoids the need for expensive, imported gravel.

**Landfill**

Modern landfills need to be a totally contained unit where nothing must be allowed in or out. InterDrain and DuoDrain are ideal for these situations and have been used successfully for many years, increasing the capacity of the landfill and providing safe, environmentally friendly solutions for the following applications:

- Ground water drainage
- Leak detection systems
- Leachate collection and drainage
- Gas collection and dispersal
- Landfill cap drainage

Please call 01455 617 139 or email sales@geosyn.co.uk for further information.
Gas dispersal

DuoDrain geocomposite drainage products can be used to prevent gas seeping into buildings or enclosed spaces from adjacent soil. Radon, methane, hydrogen sulphide and carbon monoxide are just some of the gases against which DuoDrain can provide protection.

Geosynthetics Ltd can provide the specialist knowledge needed when designing gas dispersal systems and expert advice on which products to use. Call our sales team on 0870 850 1018 for more information.

Roof gardens

Lightweight, geocomposite drainage products such as those in the DuoDrain range are a vital element in the design of green roofs and roof gardens. With an increasing demand for these kinds of features, it is important to provide a light and versatile drainage system of a high in-plane flow rate.

The DuoDrain geocomposite range provides the necessary compressive strength and the correct drainage properties to help increase the longevity and performance of green roofs and roof gardens.

Block paved areas

Using DuoDrain for block-paved areas creates a more stable surface and increases their lifespan. Without sufficient drainage the sand layer beneath the blocks will become saturated and traffic will cause the sand to liquefy and be lost through the joints. Duodrain beneath the sand layer helps to avoid this saturation by providing effective drainage - even under heavy compression and in high traffic areas.

Land drainage

The traditional solution for drainage of grassed areas: the French drain, can be both expensive and time-consuming to install. DuoDrain is the modern alternative proven in numerous sites where high performance surfaces are required. Flexible and easy to install in new and existing areas, DuoDrain provides an economical solution to land drainage.
Certified Quality

DuoDrain composite drainage products are manufactured under a quality management system which is certified in accordance with the most comprehensive standards set by the International Organisation for Standardisation; namely ISO 9001. This has been implemented throughout the business to give customers greater reliability and improved quality.

Accreditation

DuoDrain composite drainage products are CE marked in accordance with The Construction Products Directive (CPD 89/106/EEC). CE marking demonstrates conformity to The Construction Products Directive (CPD 89/106/EEC) and indicates the stringent testing and certification of Factory Production Control (FPC) that DuoDrain composite drainage products have gone through to meet the highest European standards.

Geosynthetics Ltd is committed to offering the best solutions for soil stabilisation, erosion control, drainage and environmental protection problems. Well trained staff are always available to discuss which materials are best suited to any particular application.
## Product Range

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
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<tbody>
<tr>
<td>InterDrain GM</td>
<td>InterDrain GM is a geonet thermally bonded to a geotextile on one side. This is the ideal drainage composite for vertical applications where waterproofing protection is not required.</td>
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<tr>
<td>InterDrain GMG</td>
<td>InterDrain GMG is a geonet thermally bonded to a geotextile on both sides. This drainage composite can be used in vertical and inclined applications and can play an important role in waterproofing protection.</td>
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<tr>
<td>InterDrain GMF</td>
<td>InterDrain GMF is a geonet thermally bonded to a geotextile on one side as ViaDrain GM but with a geomembrane on the other side. Ideal for vertical or inclined applications, the impermeable geomembrane makes it especially useful where waterproofing is required.</td>
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<tr>
<td>DuoDrain DD</td>
<td>DuoDrain DD is a cuspated drainage core bonded to a geotextile on one side or alternatively fully wrapped in geotextile. Again ideal for vertical or inclined applications and the impermeable surface on one side makes it useful for both waterproofing and gas venting.</td>
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<tr>
<td>ViaDrain</td>
<td>ViaDrain is a geonet, thermally bonded to a geotextile on both sides, incorporating a geotextile sock for the drainage pipe. This product has been specifically designed for roadside drainage applications.</td>
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<tr>
<td>StripDrain</td>
<td>DuoDrain StripDrain is a perforated cuspated HDPE core which is fully encapsulated by a non-woven geotextile filter fleece. The perforations give the product a true 2 way flow, and in conjunction with outlet fittings is used extensively in sustainable urban drainage permeable paving solutions and in sports &amp; amenity field drainage.</td>
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Please call - **01455 617 139**

or email sales@geosyn.co.uk for more technical advice and further information.