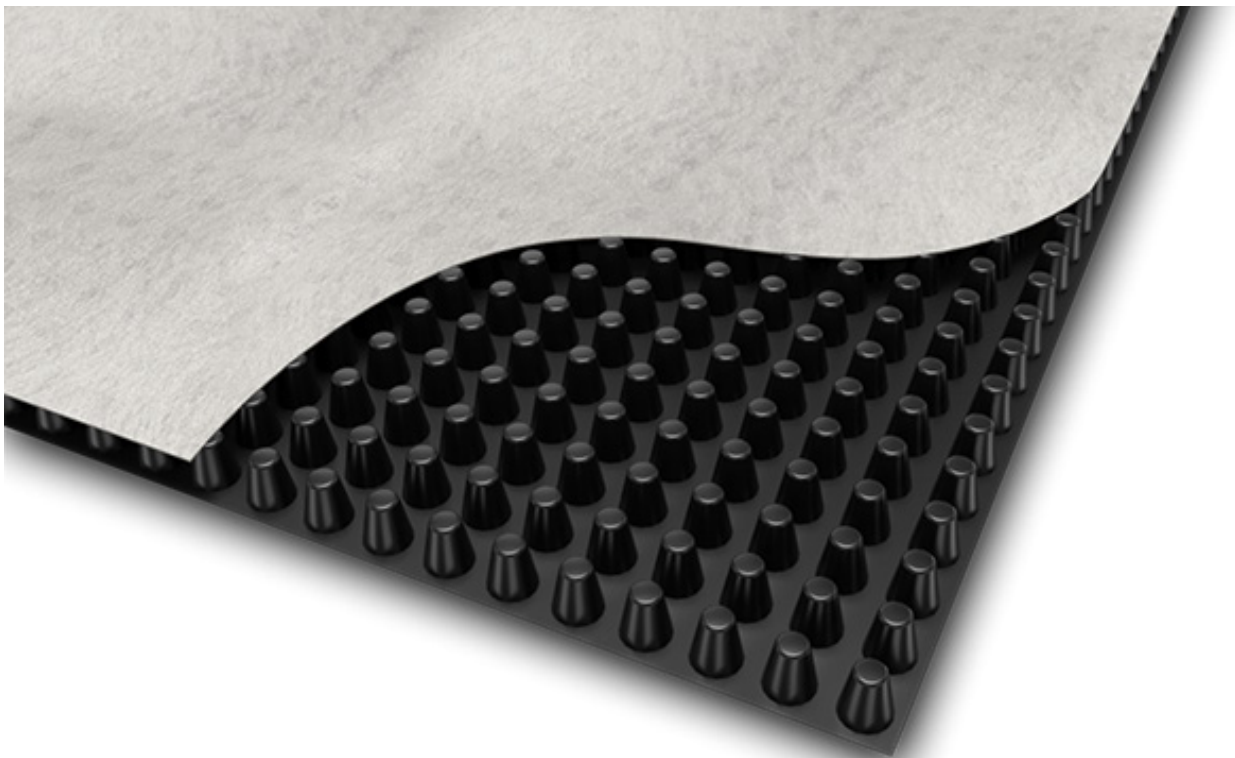


Deckdrain Drainage Geocomposite

High Performance Geocomposite Drainage Layer

Replaces the Requirement for Stone Filter Layers



Product Information

Deckdrain is a high performance geocomposite drainage system. Designed to provide an environmentally friendly alternative to traditional structural drainage techniques, it delivers high flow capacity and added protection to waterproofing.

Deckdrain's unique drainage core replaces the requirement for stone filter layers, whilst giving superior flow. The filter geotextile prevents clogging of the core.

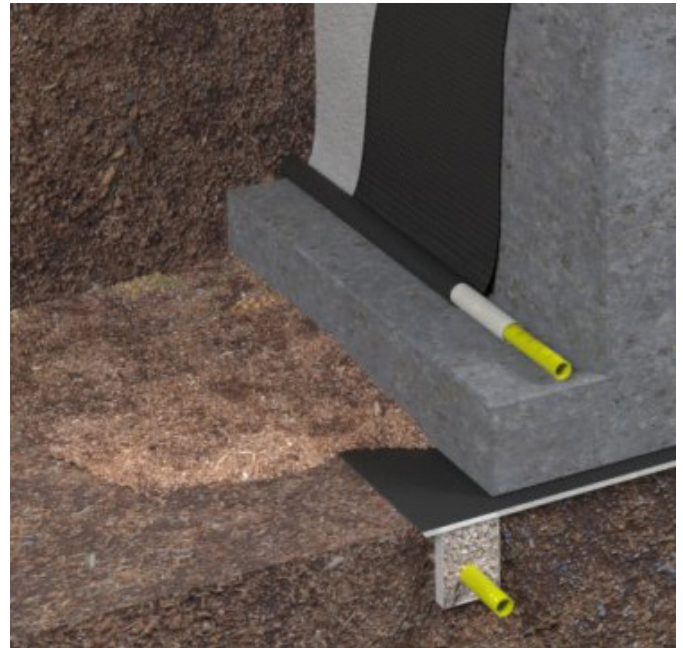
Applications

- Relief of external water pressure from buried structures
- Highways Bridge abutment and wingwall drainage
- Structural drainage on rail projects
- Drainage on Green Bridges
- Drainage behind retaining walls
- Covered reservoir roofs and walls
- Tunnel drainage
- Roof garden drainage
- Block paving drainage
- Relief of uplift pressure beneath tanks, slabs and culverts
- Capillary break layer below base slabs
- Structural drainage
- Green Tunnels

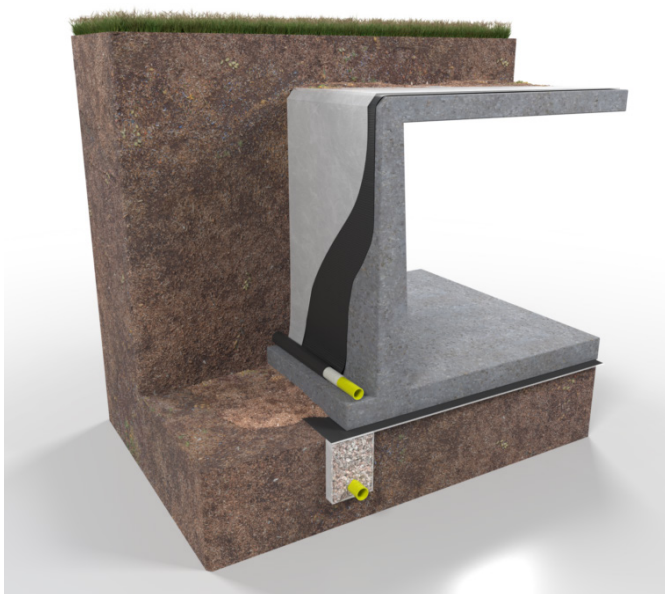
Deckdrain Drainage Geocomposite

Benefits

- Horizontal or vertical drainage applications (walls)
- Thinner drainage layers when compared to traditional aggregate drainage solutions
- Reduced dead loads on structure means thinner slabs are possible
- High, factory controlled consistent flow capacity
- Wide rolls of Deckdrain available to enable rapid installation
- Enhances the performance of structural waterproofing by providing an additional barrier that prevents the majority of water reaching the liner
- High CBR puncture resistance of Deckdrain provides protection
- Allows use of lower specification backfill
- Reduced delivery traffic volumes when compared with stone delivery vehicles



Deckdrain is used in civil engineering and construction drainage applications; including bridge abutments, buried structures, retaining walls, tunnels, roof gardens and covered potable water reservoirs. Deckdrain geocomposite consists of a high strength, flexible polyethylene cusped core with a non-woven filter geotextile bonded onto one or both sides. The geotextile filters a wide range of materials whilst allowing water to percolate into the core of the geocomposite before draining to a discharge point.



The HDPE cusped core of the geocomposite provides a free flowing drainage void. The cusps are designed to support the geotextile which is bonded to the core, to ensure that it doesn't deform into the drainage void under the pressure of the backfill material. Deckdrain is designed to allow flow in all directions, unlike linear or pipe systems.

Deckdrain is durable and sufficiently robust to resist the mechanical stresses imposed during installation and then on throughout its design life. Use of Deckdrain eliminates the need for further protection of the waterproofing system. Deckdrain has been creep tested at compressive loads of up to 1,000kPa to give a design life of 120 years.

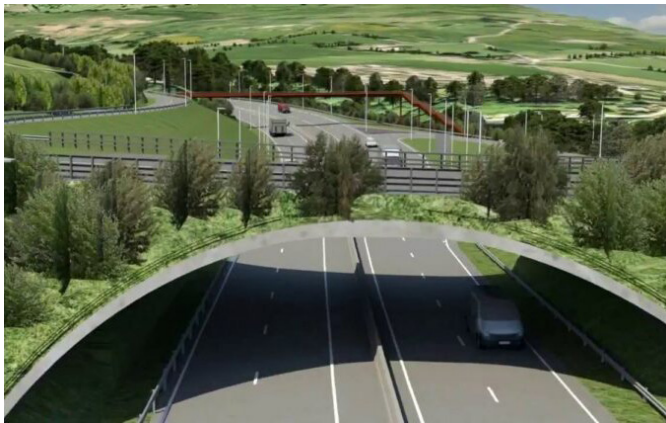
Deckdrain is a UK manufactured BBA certified product, with a long history of use on National Highways, Transport Scotland and other major Highways schemes. Deckdrain is available in a range of flow capacities from 1 l/m/s to 95 l/m/s, corresponding to thicknesses ranging from 4mm to 50mm, and can be supplied in a variety of roll sizes designed to suit differing site requirements.

Deckdrain geocomposite is used in the construction of green bridges and green tunnels to protect the waterproofing and provide drainage to the structure, which removes the need for bulky porous blocks and the logistical challenge of importing granular fill.

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Deckdrain G for Leak Detection

The increasing demand for leak detection and location “intelligent membranes” requires a complementary drainage and protection layer. Deckdrain G has been designed with a special latticed cusped design, developed to support this technology and as implemented on a range of reservoirs across the UK. In addition to providing multi-directional flow, the Deckdrain G offers protection against puncture of the underside of the geomembrane layer. In the event of a tear to the membrane, the water has an easy drainage pathway to the sump so that the source of the leak can be identified and repaired.



About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

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