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High performing geocomposites
The drainage you want

Name it. We’ll do it.
DRAINTUBE technology adapts easily to the complex challenges that confront mining engineers on a daily basis. Input from many different laboratories, operators, and designers has helped the technology evolve in order to solve drainage problems in this field:

- acid leachates as part of heap leach pad extractions
- dry tailings to build in stability by reducing soil saturation
- water runoff onto and biogases under geomembranes, as part of projects to cap tailing landfill sites
- groundwater under freshwater ponds for shale gas extraction

DRAINTEC uses tried and tested European technology, but is manufactured in Canada to meet North American standards. It combines the performance of geotextiles (separating and filtering) with that of perforated drains (drainage). DRAINTUBE is built in such a way that its size can be adjusted to meet project characteristics (hydraulics) and the features of the soil (separating/filtering). Lymphéa® software helps designers find the best possible solutions for all project difficulties.

**MARKET SEGMENTS**

**ENVIRONMENTAL ENGINEERING**
An efficient response to safety concerns

DRAINTUBE technology provides efficient ways of draining landfill facilities. AFITEX-TEXEL is proud to include major North American landfill operators among its customers, and has carried out many projects that demonstrate DRAINTUBE’s performance in:

- draining rainwater under site-caps to reduce embankment soil saturation and thereby increase its stability
- actively draining biogas to reduce pressure under the cushioning agents
- draining groundwater under confinement cells to eliminate the buildup of hydrostatic pressure

DRAINTUBE can also be used to replace part of the gravel layer to drain leachates at the bottom of sites.

**SPORTS AND BUILDING ENGINEERING**
An easy-to-use solutions

Gravel layers used for drainage can be replaced with DRAINTUBE technology. In building construction and sports fields, the use of gravel causes problems relating to everyday traffic, increased loads on existing buildings, and the long and delicate task of installation. AFITEX-TEXEL has developed an array of products for its municipal and private customers that are specially designed to meet such challenges.

**APPLICATIONS:**
- Drainage for sports fields that use synthetic materials
- Rainwater drainage from municipal drinking water tanks and groundwater and biogas drainage under concrete slabs

**CIVIL ENGINEERING**
A way to reduce environmental footprints at work sites

Transit authorities regularly use DRAINTUBE instead of gravel layers for draining groundwater. Not only does DRAINTUBE perform just as well, it reduces environmental footprints at work sites significantly by eliminating more than 90% of greenhouse gas emissions related to the transportation of materials.

**APPLICATIONS:**
- Draining groundwater from road foundations (where the water table is high)
- Draining compressible soil (in relation to vertical drainage)
- Drainage behind reinforced walls to act as a hydraulic barrier

**MINING**
An ideal market for this technology

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**AN INTERNATIONAL DIMENSION**
With hundreds of successful projects around the world, AFITEX-TEXEL has international experience to offer designers.
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A well known brand

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