

GEOCONDUCT

PRODUCT CUT SHEET

CONDUCTIVE GEOSYNTHETIC
FOR LEAK DETECTION
IN GEOMEMBRANES THROUGH
GEOELECTRIC MONITORING



ADVANTAGES

Leak monitoring by
geoelectric means regardless
of the type of support

Uniform **diffusion of electrical
signals** under geomembrane

Geomembrane protection
against punctures

Geoconduct is a line of patented geotextiles providing conduction and mechanical protection in the form of a current conducting grid combined with one or several non-woven needled geotextiles. The characteristics of the geotextiles used are validated for each project based on the mechanical constraints of the site and the desired level of protection. Geoconduct can be installed under or between two geomembranes. Under a geomembrane, it is possible to disregard the type of support while between two membranes, it provides for the monitoring of primary tightness without flooding the structure.

GEOCONDUCT

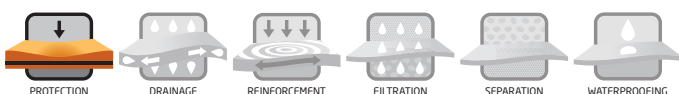


A SOLUTION SCALABLE TO YOUR NEEDS:

The Geoconduct line combines geotextiles and an electroconductive media in a single product which can be dimensioned according to the specific requirements of your project:

- **Protection:** puncture resistance according to geotextiles selected;
- **Electrical conductivity:** electrical conductivity ensured by the presence of a conducting structure;
- **Period of use:** can be limited to the installation period or allow for ongoing monitoring over several years;
- **Drainage:** the Geoconduct technology can be combined with Draitube for drainage applications.

FUNCTIONS



SECTORS

- ✓ Municipal and Landscape Architecture
- Roads and Transportation
- ✓ Natural Resources and Energy
- ✓ Industrial and Waste Management

**NAME IT.
WE'LL DO IT.**



WORKSITE ASSISTANCE TO HELP YOU WITH INSTALLATION:

- Technical assistance is provided at the start of a project at the request of the engineer or the company;
- An installation guide is provided to explain the execution of joints to allow electrical conduction between rolls;
- A control box is made available during the installation of Geoconduct to monitor electrical continuity of joints between rolls.

GEOCONDUCT, A SOLUTION TO YOUR LEAK DETECTION NEEDS

Geoconduct was specifically designed for the detection of leaks in a geomembrane laid on a non conductive base (concrete, insulation, sand, etc.) and is compatible with all types of geomembranes (PEHD, bituminous, PVC, etc.). Geoconduct provides for the monitoring of leaks in a geomembrane in various sealing applications:

- Landfill sites (technical);
- Holding ponds (water, leachate, chemicals, etc.);
- Drinking water reservoir;
- Etc.

For each project, the Geoconduct line is adaptable to the desired performance level:

- Monitoring of leaks in both primary and secondary geomembranes when installing double sealing;
- Geoelectric prospection of leaks in membrane, covered or not, during work with any type of mobile device (water jet, electrical broom, electrical dipole, etc.);
- Possible monitoring during the entire life of the works in addition to a fixed system of ongoing leak detection.



NEED TO KNOW MORE?

Call our representatives
to discover the advantages
of the **GEOCONDUCT**
for your projects!

1-800-463-0088

SPEC SHEET



www.texel.ca

SPECIFICATIONS

Description	GEOCONDUCT
Product type	Geocomposite (conductive grid and nonwoven needled geotextiles)
Format	Roll

GEOCONDUCT, properties which make a difference

Properties measured		Test method	Unit	Interpretation
Mechanical	Puncture resistance CBR	ASTM D6241	N	Quantifies the puncture resistance to aggregate pressing against the geocomposite.
Hydraulic	Permeability	CGSB 148.1-4	cm/s	Indicates the capacity of the geotextile filter to let water through perpendicularly to its plane.
Electrical	Average electrical resistance	-	Ohm.m	Indicates the capacity of the geocomposite to conduct current over a large surface.
	Response time to water spray	-	sec	Indicates the capacity of the geocomposite to allow detection at a given sweeping speed.

This table presents a summary of specifications. We invite you to consult updated information sheets and detailed technical specifications on our website at www.texel.ca.

IMPORTANT NOTICE - The information included in this document is presented for status and promotion purposes only. Therefore, all the characteristics of the project have not been mentioned. Texel and his partners do not offer any guarantee in regards of the previous information.

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■ GEOSYNTHETICS