

TEXEL GEOCONDUCT

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;

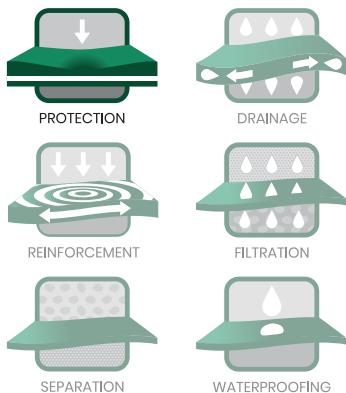
Geomembrane protection against punctures.



Texel 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 needlepunched 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. Texel 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.



FUNCTIONS



SECTORS

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

A SOLUTION SCALABLE TO YOUR NEEDS:

The Texel 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 Texel Geoconduct technology can be combined with Draintube for drainage applications.



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 Texel Geoconduct to monitor electrical continuity of joints between rolls.

TEXEL GEOCONDUCT, A SOLUTION TO YOUR LEAK DETECTION NEEDS

Texel 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.). Texel 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 Texel 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.

SPECIFICATIONS	Description	Type of product	Format
	Texel Geoconduct	Polypropylene needle-punched non-woven/woven geocomposite	Roll

TEXEL GEOCONDUCT, PROPERTIES WHICH MAKE A DIFFERENCE

Properties Measured		Test Method	Unit	Interpretation
Mechanical	CBR puncture	ASTM D6241	N	Quantifies the puncture resistance to aggregate pressing against the geocomposite.
Hydraulic	Permeability	ASTM D4491	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.

WANT TO LEARN MORE?

Feel free to contact one of our representatives to discuss your project. **1 800 463-8929 | texel.ca**

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