PRODUCT INFORMATION SHEET

TEXEL ALVEODRAIN

DRAINAGE OF BURIED VERTICAL WALLS, TUNNELS, AND LOST FORMWORK APPLICATIONS

BENEFITS:

Flexible product, easy installation;

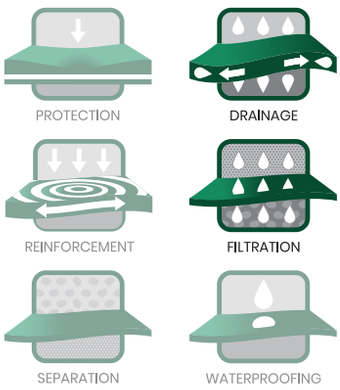
Lost formwork applications;

Reduction of shotcrete rebound;

Improved adhesion of concrete to the geocomposite.

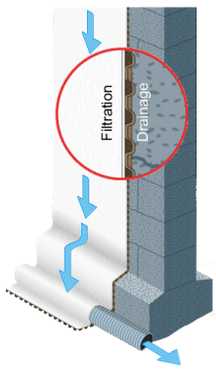
The Texel Alveodrain drainage geocomposite is composed of a thermoformed alveolar-structured geotextile drainage core combined with a filtration geotextile. It enables drainage along buried vertical walls, behind retaining walls, and bridge abutments. In tunnel intrados, Texel Alveodrain drains infiltration water between the wall and the concrete lining.
Texel Alveodrain is also used in lost formwork applications. Concrete is either cast or sprayed directly against the alveolar-structured geotextile, whose specific texture enhances concrete adhesion.

FONCTIONS



SECTEURS

- Municipal and Architectural
- Roads and Transportation



THE INNOVATIVE DRAINAGE GEOCOMPOSITE

Thanks to its unique composition, Texel Alveodrain delivers optimal performance:

- Adapts to all surfaces, even uneven ones;
- Can be installed directly on the excavated wall for use as lost formwork;
- Protects waterproofing by reducing hydrostatic pressure;
- Minimizes dead load thanks to its lightweight design;
- Includes a geotextile filter to prevent clogging;
- Easy installation with no specialized tools required;
- Cost-effective alternative to conventional drainage systems.

TEXEL ALVEODRAIN

INSTALLATION OF TEXEL ALVEODRAIN:

- The geocomposite is cut on-site to the required length;
- At the top of the panel, the filter is folded down to prevent soil particle migration;
- The geocomposite panels are fastened using nails or rebar, depending on the type of substrate;
- Connection to the collector drain is done without the use of granular materials — the drain is inserted between the filter and the alveolar drainage core.

APPLICATIONS OF TEXEL ALVEODRAIN:

- **Vertical wall drainage:** Texel Alveodrain adapts to all types of natural (tunnels, excavations, etc.) or civil engineering walls (foundations, bridge abutments, etc.), regardless of the geometry or surface regularity. The product's flexibility ensures easy installation and maintains good contact with the wall. A base collector drain is installed to collect and evacuate the water drained by the geocomposite.
- **Lost formwork drainage:** Texel Alveodrain is installed with the product's filter layer in contact with the excavated wall. The individual panels are secured using nails or rebar. The steel reinforcement is then placed over the product. Concrete is subsequently cast or sprayed directly onto the geocomposite.
- **Shotcrete:** Concrete can be sprayed directly onto the geocomposite. The specific texture of the alveolar-structured geotextile enhances the adhesion of the shotcrete to the geocomposite. Rebound is minimized, thereby reducing the amount of concrete required.

SPECIFICATIONS	**Description**	**Product type**	**Format**
	Texel Alveodrain	Polypropylene geocomposite	Roll

TEXEL ALVEODRAIN – THE PROPERTIES THAT MAKE THE DIFFERENCE

Measured properties		Test method	Unit	Interpretation
Composition	Thermoformed geotextile mat with an alveolar structure combined with a filter			Indicates the product's flexibility and its ability to reduce shotcrete rebound.
Mechanical	CBR puncture resistance	ASTM D6241	N	Quantifies the puncture resistance caused by contact materials.
Hydraulic	In-plane flow capacity	EN ISO 12958	m^2/s	Indicates the geocomposite's ability to conduct water within its plane under a given hydraulic gradient and pressure.

This table provides a summary of specifications. All users are encouraged to consult the detailed, up-to-date product technical sheet 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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