

TEXDRAIN

PRODUCT CUT SHEET

OPTIMAL DRAINAGE
IN EVERY SITUATION



ADVANTAGES

Efficient water **drainage, filtration, separation** and evacuation using a single product

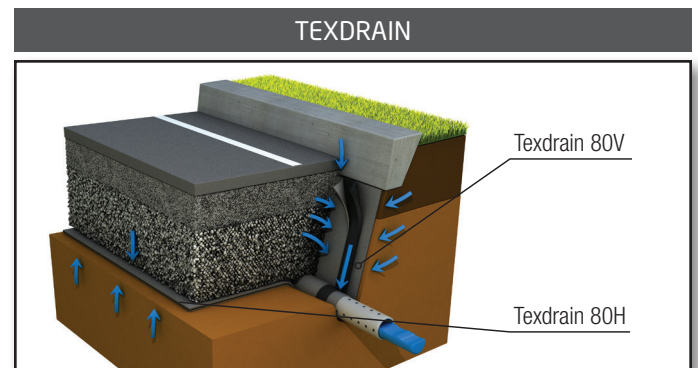
Quick water **interception** and **evacuation** to the outlet pipe

Costs less than conventional drainage systems

Product is **flexible, easy to install** and adapts to the excavation profile

Drainage core 1,000 to 10,000 times **more permeable** than in-situ soil

Texdrain is a drainage composite designed to intercept and accelerate the evacuation of infiltrating waters from pavement structures towards neighboring terrain over the full height/width of the road's foundation. Its manufacturing and hydraulic properties allow for the retention of fine soil particles, thus combining drainage and separation/filtration functions. The product comes in two models: Texdrain 80V for vertical drainage (with sheath for pipe to be inserted) and Texdrain 80H for horizontal drainage (without sheath).



ADEQUATE DRAINAGE

Texdrain possesses key characteristics ensuring adequate drainage of road infrastructures, bridge abutments, embankments, retaining walls, etc.:

- Important drainage capacity under high compression
- Intercepts water and lowers hydrostatic pressure in the structure
- High resistance to imposed mechanical stress
- Large contact surface with soil facilitating water catchment
- In-plant quality control during geocomposite manufacturing

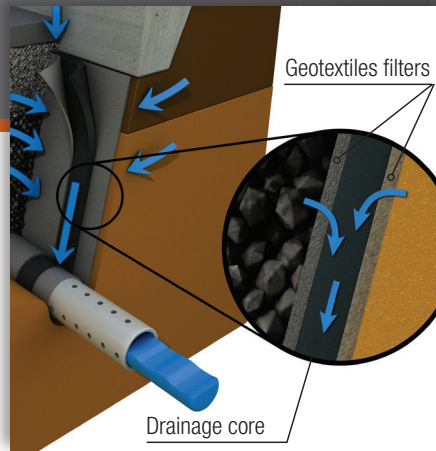
FUNCTIONS



SECTORS

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

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



TEXDRAIN 80V INSTALLATION INSTRUCTIONS FOR BEST PERFORMANCE:

- Install and fix product vertically along the excavated wall
- Overlap product based on worksite conditions and attach pipes using joining sleeves
- Pre-insert rope in sheath to pull perforated drainage pipe easily through
- Place collector pipe at a minimum of 150 mm below structure line
- Connect and install header pipe to ensure sufficient water run-off

TEXDRAIN, A SOLUTION TO WATER INFILTRATION

Water infiltration and the presence of water have a direct impact on infrastructure longevity, particularly in areas where periods of freezing and thawing occur. The ministère des Transports du Québec recognizes that the installation of drainage systems allows for improved pavement performance and increased durability. A performance test was conducted by the Laval University i3C Chair, which revealed that the use of Texdrain reduces water content by 40% and increases pavement service life by up to 25%. Furthermore, Texdrain products ensure the efficient drainage of road infrastructures, acting as a draining screen along the pavement of bridge abutments, embankments, retaining walls and are also suitable for parks, parking lots, railroads, golf courses, landfill sites, airports, concrete slabs, etc.

Texdrain's drainage core, perfectly enveloped between two geotextiles filters offers a permeability 1,000 to 10,000 times greater than that of the soil in place, thus promoting the migration of water through the geotextile to the outlet pipe. Since it rapidly evacuates water to minimize the effects of frost heaves, Texdrain offers an effective drainage solution. This product therefore preserves the integrity of the structure by ensuring the maintenance of the bearing capacity while limiting the migration of fine particles.



**NEED TO
KNOW MORE?**

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

1-800-463-0088

SPEC SHEET



www.texel.ca

SPECIFICATIONS

Description	Texdrain 80V, Texdrain 80H
Product type	Nonwoven needlepunched geotextile
Format	Texdrain 80V (with sheath for pipe), Texdrain 80H (without sheath)

TEXDRAIN, properties which make a difference

Properties measured		Test method	Unit	Interpretation
Mechanical	Tensile strength	CGSB 148.1 No. 7.3	N	Indicates the capacity of the geocomposite to resist tension strength to breaking point.
	Resistance to water penetration	CGSB 4.2 No. 26.3	cm H ₂ O	Indicates the maximum height column of water in the product before penetration.
Hydraulic	Transmissivity	ASTM D4716	m ² /s	Indicates the capacity of the geocomposite to conduct water along its plane for a given constraint and hydraulic gradient.
	Filtration opening size FOS	CGSB 148.1 No. 1	µm	Indicates the size of soil particles which can pass through the geotextile under hydrodynamic conditions.

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.

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**1300, 2^e rue, Parc industriel
Sainte-Marie-de-Beauce (Québec)
G6E 1G8 CANADA**

Texel
— GEOSYNTHETICS