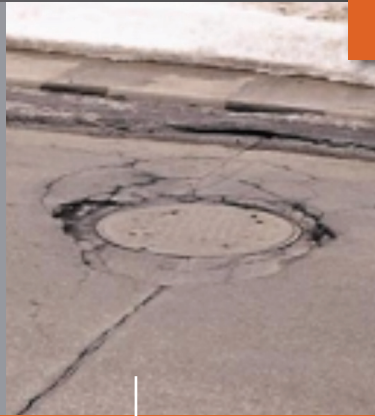


TEX-O-FLEX

PRODUCT CUT SHEET

THE SOLUTION
TO AVOID RISING
MANHOLES AND
CATCH BASINS DUE
TO FREEZING



THE PROBLEM



THE SOLUTION



ADVANTAGES

Ensures the **sustainability**
of structures

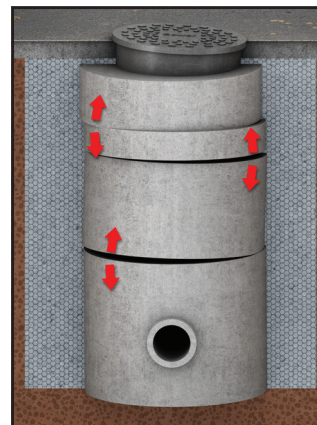
Simple and quick to install

Proven solution on worksites

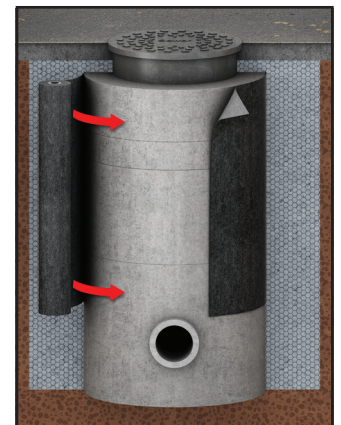
Elimination of **costly repairs**

Tex-O-Flex is a protection composite material made of a PVC geomembrane extruded over a needlepunched nonwoven geotextile. Its multilayer design controls the effects of freezing-thawing on manholes and catch basins limiting misalignment of concrete sections. This product is an economical and efficient solution which minimizes damage caused to frost-susceptible soils of the road network.

WITHOUT PROTECTION



WITH TEX-O-FLEX



A SOLUTION PROVIDING A QUICK RETURN ON INVESTMENT

- Manhole protection = less than 5 % of the manhole's cost
- Repair of manholes which have moved = more than 33 % of the manhole's cost
- A single 15-m roll can protect four 900-mm manholes
- Without protection repairs are to be expected after the thaw

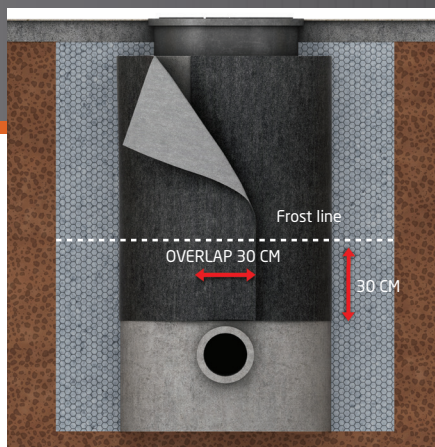
FUNCTIONS



SECTORS

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

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



TEX-O-FLEX CAN BE INSTALLED RAPIDLY WITHOUT SPECIALIZED TOOLS:

1. Wrap around manhole with geotextile against the concrete
2. Adjust at the same level as the head of the concrete
3. Overlap the material by 30 cm
4. Cover up to 30 cm below the frost line
5. Attach with a rope or fasteners to retain it during backfill
6. Place granular material around manhole at a width of at least 30 cm and compact in layers of 30 cm

TEX-O-FLEX, A VERY EFFICIENT SOLUTION

THE SOURCE OF THE PROBLEM

Under the effect of freezing, humid soil around manholes sticks to the concrete walls forming a homogenous soil-manhole block which follows the movements of the soil. When concrete section move, soil particles penetrate into the joints preventing sections exposed to freezing from returning to their initial position when thawing. The tightness of the manhole and its adjustment in relation to the level of the pavement are no longer assured.

THE SOLUTION

The formation of a homogenous soil-manhole block must be avoided at freezing time. To do so, the manhole must be surrounded by a product having a low friction coefficient with the soil thus creating two independent blocks. This technique allows the soil to move without causing the movement of the concrete sections. Furthermore, thanks to the drainage properties of the geotextile which faces the concrete and which ensures optimal draining of seeping water, Tex-O-Flex dissipates any water inflows. Texel's extrusion process provides an adhesion geotextile/geomembrane which is definitely superior to the lamination process used by competing products and guarantees that the composite material will not delaminate and will keep its mechanical properties throughout its life. Thus, Tex-O-Flex increases the lifetime of the manholes.



NEED TO KNOW MORE?

Call our representatives
to discover the advantages
of the **TEX-O-FLEX** for
your projects!

1-800-463-0088

SPEC SHEET



www.texel.ca

SPECIFICATIONS

Description	TEX-O-FLEX
Product type	Extruded PVC geomembrane over a non-woven polypropylene geotextile
Format	Roll

TEX-O-FLEX, properties which make a difference

Properties measured		Test Method	Unit	Interpretation
Composite mechanics	Adhesion	ASTM D751	N/mm	Ensures the integrity of the composite over time by measuring the adhesion force between layers.
	Resistance at low temperatures of -30 °C	ASTM D751	-	Validates that the type of polymer used as a membrane will perform over a long period even under rigorous conditions.
Hydraulic	CBR puncture	ASTM D6241	N	Indicates the composite's puncture resistance.
	Transmissivity gradient of 1.0, 8 kPa	ASTM D4716	m ² /sec	Ensures adequate drainage of the composite so as to prevent damage caused by the accumulation of water over the manhole.

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