



# Tex-O-Flex

**The solution to avoid rising manholes  
and catch bassins due to freezing**

Installation Guide

**ALKEGEN**



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## 1. Description of the Product and it's Application

### 1.1 Product

Tex-O-Flex is a protective composite material made from a PVC membrane extruded over a needlepunched nonwoven geotextile. The product is produced in rolls according to standard available sizes.

### 1.2 Application

Wrapped around the manhole, Tex-O-Flex helps to reduce cohesion between the ground and the manhole. The Tex-O-Flex PVC geomembrane helps to minimize scraping against the soil and thereby prevent manhole sections from shifting during ground freeze and thaw cycles. The TEX O FLEX geotextile that is in contact with the manhole helps to dissipate potential water inflows. The geocomposite therefore helps to extend manhole life spans.

## 2. Receiving, Handling, and Storage

### 2.1 Receiving

The Tex-O-Flex rolls are packed when manufactured to withstand standard on-site handling. An adequate mode of transportation must be used to avoid damage during delivery on-site.

Each roll is assigned a unique series number that may be used to trace the production lot, if required. Labels are placed on the following locations:

- On the packaging at the end of the roll;
- On the material, on one end of the roll;
- Inside the cardboard tube at one end of the roll.

When rolls are received, it is important to check the condition of the rolls and packaging.

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### 2.2 Handling

The installer must handle the rolls without damaging them in any way. When unloading at the worksite, make sure not to drag the material on the floor of the trailer or along the ground, as this can result in damaging the packaging and the product.

### 2.3 Storage

From the time they are received until they are used, the rolls must be stored on a clean, non-abrasive surface and be protected from any mechanical damage, prolonged exposure to ultraviolet rays, puncturing, tearing and anything else that could affect their quality. Damaged packaging can be repaired by applying protective adhesive tape, or a new bag can be used. Unused parts of the roll must be repackaged to protect them until they are used.

### 2.4 Health and Safety



At each step of the conception until completion, each worker must work safely. Whether it is for the materials, tools or machineries operation, working environment, the health and the safety should be priorities.

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### 3. Installation Instructions

#### 3.1 Installing the Geocomposite

The Tex-O-Flex must be wrapped around the manhole with the geotextile side against the concrete to a minimum depth of 300 mm below the frost line.

The Tex-O-Flex must be installed from the top of the manhole which will subsequently be equipped with a frame and cover. To ensure maximum efficiency of the Tex-O-Flex, the use of adjustable frames and covers that follow the roadway profile is recommended.



**Figure 1 – Tex-O-Flex with the PVC geomembrane facing outward**



The Tex-O-Flex must be installed with its PVC geomembrane facing outward, meaning in contact with the fill.

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Tex-O-Flex can be held in place using non-scratching substances such as adhesive tape or ropes to prevent shifting during the fill phase.

### 3.2 Overlap

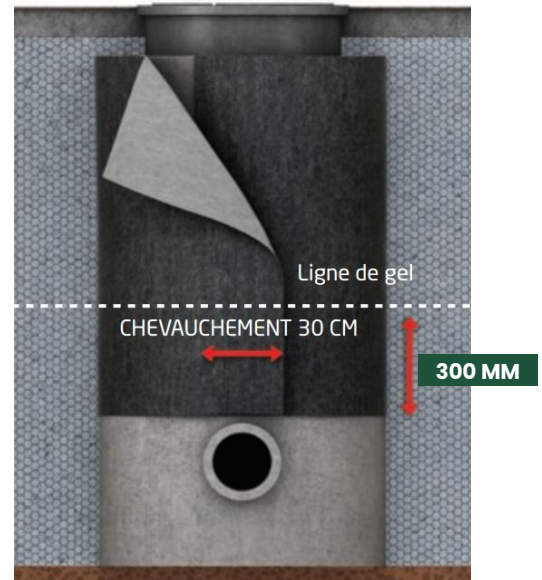
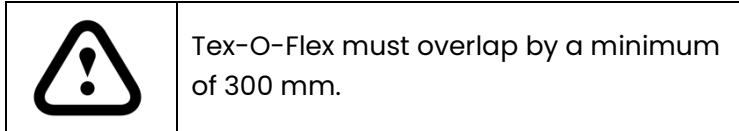


Figure 2 – Minimum Overlap

### 3.3 Backfilling

A granular material must be spread around a minimum 300 mm radius. The slope, the type of compacting, and the maximum thickness of the layers must be respectively obtained and selected based on the fill properties.

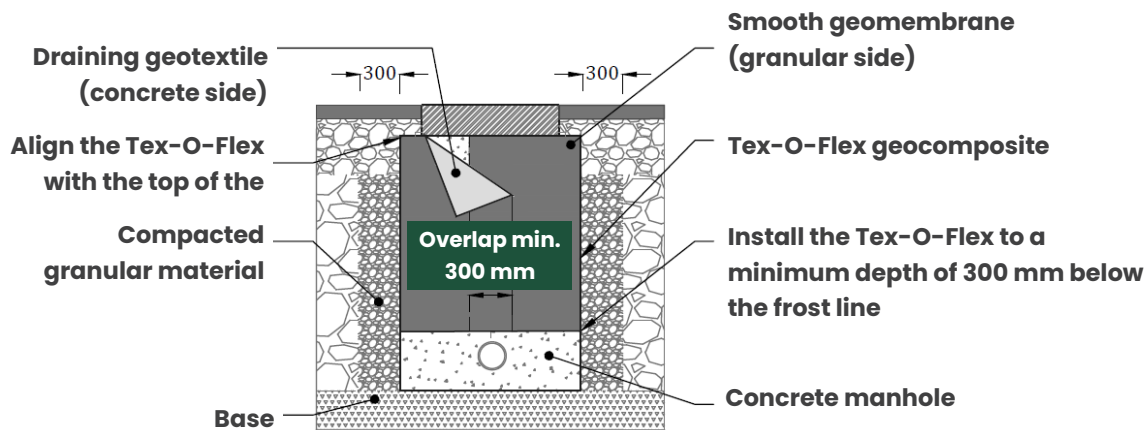


Figure 3- Coupe type du remblaiement

NOTE: Design must always be carried out by the engineer responsible for the project. Any information, verbal or written, transmitted by Texel Matériaux Techniques, may under no circumstances be interpreted as being of a conceptual nature. All information must always be validated and approved by the engineer responsible for the project.

#### WANT TO LEARN MORE?

Feel free to contact one of our representatives to discuss your project.

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