

ATTENTION!
**THE MEMBRANE SPILLTEX® MUST BE SOAKED IN A
CONTAINER WITH PURE WATER FOR 5-7 MINUTES
BEFORE USE.**

MANUAL

on the use of filter cloth Spilltex®
for laying sumps



Yekaterinburg, 2021

1. Description

The filter cloth Spilltex® for laying sumps (hereinafter – the SPILLTEX® cloth) is a fabricated rectangular cloth made of natural cotton fabric modified with a microgel solution based on natural polysaccharides Biomicrogel®. This cloth is reinforced with slings and equipped with eyelets (D=18 mm) along the short edge to attach it to the ground (figures 1a and 1b). It is used to capture and collect any types of petroleum products (diesel fuel, gasoline, grease, oils) within a sump.

Operating principle:

1. The Spilltex® cloth is laid on the sump surface in the way of the groundwater flow.
2. The Spilltex® cloth allows water to pass through and holds oil products within the sump.
3. The collected oil products are removed by any available tools (with nets, skimmers, and etc.).

Component parts:

1. The filter cloth for laying sumps Spilltex® – 1 pc.
2. Pegs 200 mm – 1 set.
3. Pegs 400 mm – 1 set.

2. Preparation for work and installation

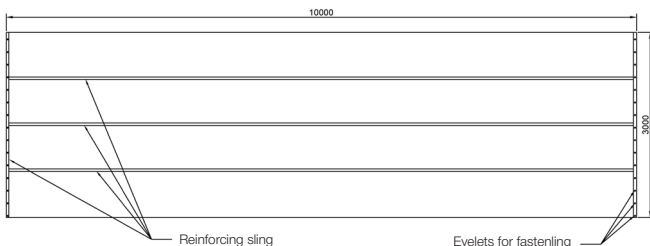


Figure 1a. Filter cloth Spilltex® for laying sumps

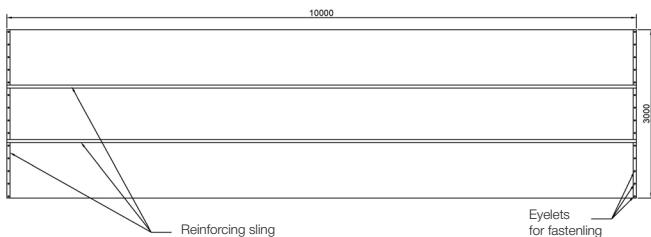


Figure 16. He filter cloth for laying sumps Spilltex®

2.1 Drainage layer installation

The bottom and walls of the sump are wrapped with a drainage fabric to protect the membrane from clogging by mechanical particles. Any permeable drainage (geotextile) material is used as a drainage fabric (dornit, tarpaulin, and etc.) If the sump area exceeds possible drainage fabric sizes, the drainage layer should be made of several drainage fabrics that are connected together by any available tools (stapler, thread, glue). The drainage cloth is attached to the ground with pegs (200 mm/ 400 mm). A solid mounting platform is installed on the sump bottom to mount the Spilltex® cloth later. The platform can consist of four euro pallets.

It is recommended to shut off the water supply to the sump and drain it if the sump is used before laying the Spilltex® cloth (the sump is full of water).

2.2 Spilltex® cloth activation

The Spilltex® cloth is used only in wet form!

The cloth is soaked in a container with pure water (free from diesel fuel, grease, oils, and other petroleum products) for 5-7 minutes. The Spilltex® cloth is completely submerged in the water. If it's impossible to do, the cloth is soaked in parts. The uniformity of wetting the surface of the Spilltex® cloth is controlled by visual inspection. The dry surface of the Spilltex® membrane exposed to petroleum products reduces the efficiency of the Spilltex® cloth.

Do not wring out the Spilltex® cloth after the soaking procedure!

2.3 Spilltex® cloth installation

At least three men are required to install the Spilltex® cloth. Two men unwrap and descend the Spilltex® cloth from a bank to the sump and attach it through eyelets to the ground with pegs (200 mm / 400 mm). The third man lays the cloth on a mounting platform at the sump bottom.

The Spilltex® cloth is overlapped clockwise from the entrance of the sump (Figure 2) to provide an equal hermetic coating of the sump walls perpendicular to the groundwater flow. Spilltex® cloths are attached to each other and to the drainage layer by any available tools: staples, a stapler, or universal polymer glue.

In order to lay a small sump, Spilltex® cloths are cut into 2 parts so that eyelets are always along one short edge.

3. Disposal

All collected wastes and contaminated materials must be disposed of in accordance with existing legislation

Depending on the contamination degree of the Spilltex® cloth with petroleum products and in accordance with the legislation of the Russian Federation, the following FCCW codes are applied:

- 4 43 212 56 61 4 filter cloth made of natural fibers contaminated with petroleum products in an amount of less than 15%.
- 4 43 212 51 61 3 cotton filter cloth contaminated with petroleum products in an amount of 15% or more.

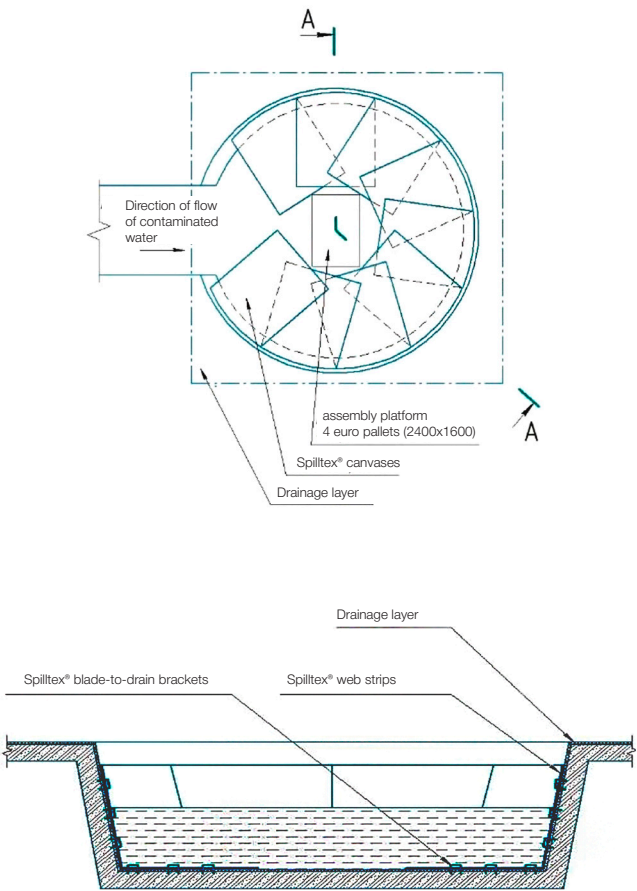


Figure 2. Installation scheme of filter cloths for Spilltex® sumps.