



# GEOTEXTILES

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## INSTALLATION GUIDE

INSTRUCTIONS FOR FILTRATION AND SEPARATION FUNCTIONS

### STEPS

1. Site preparation
2. Geotextile reception
3. Geotextile installation
4. Placement of backfill materials

## GENERAL NOTES

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The primary goal of geotextiles is to improve the quality of infrastructures and thereby extend their lifespan. Among these infrastructures, we find road works such as municipal streets, roads, highways and of course, parking lots, but also hydraulic works such as dams, dikes or banks, in addition to retaining structures, basin and draining trenches.

The main functions of geotextiles are filtration, separation, reinforcement, drainage, protection and control of the various components of an infrastructure.

Our products will preserve the integrity of different granular materials by preserving them from contamination while allowing water flow, improve their drainage capacity and increase the structural capacity of soils, while helping to minimize costs.

Good planning is essential for every step of the geotextile installation process in order to take advantage of all their benefit.

These guidelines are basic suggestions to assist the installer in the preparation and installation of the specified geotextile, particularly for filtration and separation geotextiles. Site-specific conditions and variables may require modifications and changes to these guidelines. Please consult the design engineer for any specific installation preparation/requirements.

## **STEP 1**

### SITE PREPARATION

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The site must be clear of any debris (large stones, tree stumps and vegetation) to avoid perforation or damage to the geotextile. This step is necessary regardless of the site.

Typical preparation requires the removal of all vegetation and the upper layer. Some of the existing soil unsuitable for construction may need to be excavated and replaced with suitable material before proper installation of the geotextile can take place.

## **STEP 2**

### GEOTEXTILE RECEPTION

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Upon reception of the merchandise, ensure that all items listed on the delivery slip are delivered and in good condition. Please notify immediately your Soleno representative in case of damaged or missing merchandise.

The user must be careful not to damage the geotextiles with the unloading equipment. Store the rolls on site, in an appropriate location that is easy to access and in a manner that does not interfere with construction operations.

## STEP 3

### GEOTEXTILE INSTALLATION

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Unroll a first roll of geotextile (usually in the direction of construction traffic) avoiding the formation of folds as much as possible. This precaution is all the more important when using a reinforcement geotextile in order to take maximum advantage of its mechanical properties, the geotextile must be tensioned as much as possible.

Install the following rolls with an overlap of at least 300 mm (a larger overlap may be necessary if the geotextile is installed on a very unstable ground). For large areas, factory (or on-site) seams can be made to replace the overlap.

Soil or rocks can be used to hold the geotextile in place until backfilling is completed.

For installation in a curve, the geotextile can be cut and superimposed in such a way as to respect the geometry of the pavement. The direction of overlap should be in the direction of construction, so as to avoid lifting of geotextile sections during backfilling.



## STEP 4

### PLACEMENT OF BACKFILL MATERIALS

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Granular materials are placed and spread over the geotextile using conventional construction methods. Trucks or other construction vehicles must not drive directly over the geotextile. A bulldozer is recommended to distribute backfill materials. Trucks must travel on a sufficient backfill thickness so as not to create ruts in infrastructure materials. When backfilling, be sure to take the necessary precautions so as not to move the geotextile, especially in areas of unstable infrastructure soil. Above the overlaps, the backfilling must be done from the top geotextile section to the bottom geotextile.

If damage to the geotextile is observed during installation, a piece of geotextile should be placed over the damaged area and overlap some of the surrounding undamaged area.



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