General Installation Guidelines – Pre-packed Polonite-filters

Below are some simple, yet important, guidelines to br considered when installing a new Polonite filter (replacements of existing filters is described in a separate document).

1. Filter installed only after a well-functioning main treatment step

A Polonite filter may only be installed after a functioning main-treatment step where biological material have been removed. Thus, it may not be installed directly after a septic tank or similar. ***Polonite Nordic will assume no responsibility for problems due to biological substances clogging the filter.***

2. Location at the property

The location might already have been defined in a planning permission or the like. Important aspects to consider when defining exact location are otherwise to always look for places where water can flow naturally without pump means etc.

Equally important is to facilitate future filter replacements. For this reason, filters shall be placed such that the maximum distances from where a truck with a built-in crane can operate shall not exceed:

- 500 kg-filter: 10 meters
- 1,000 kg-filter: 5 meters

3. The recipient

Where will the effluent water go? As water having passed a Polonite filter will have an increased pH, it is recommended that the water shall either be led to e.g. a water carrying ditch, a water reservoir or otherwise be infiltrated into the ground. Even though the pH will rather quickly decrease in contact with air, it is recommended not to let it out on top of vegetation. If water shall be retrieved for later use e.g. for watering plants, it is essential to make sure water from other sources, like storm water (e.g. from roof water pipes), at twice the volume is led to the same reservoir in order to reduce pH.

A ground infiltration can be made quite simple: the only requirement is that it must be able to handle the maximum flow leaving the Polonite filter.

4. Outlet level from previous treatment step must create a hydrostatic pressure

The installation must be planned in such a way assuring that the surface of the Polonite filter must be at a level at least 300mm lower than the output level of the preceding treatment step. In this way a hydrostatic pressure will make sure the water can be driven through the filter.

5. Use a suitable tank to hold the Polonite-filter

The easiest solution is to use a cylindrical tank with ample diameter for the filter to be installed. Refer to www.polonite.se/en for info on dimensions. If there is a risk for frost in the ground, the installation depth shall consider this. Tanks available from Polonite Nordic features a design making it impossible for the filter-bag to block the output pipe. If other tanks are used, it must be checked the water has free passage out of the tank.