

## Method description of a constructed wetland type 2h

constructed wetlands are with different aquatic plants overgrown gravelfilter, which live together in a biocoenosis of microorganisms in the gravelfilter an which nourish from the ingredients of the water.

The mechanical preliminary cleaning, the separation from Water and solids takes place either in a septic tank or in a rotting sack system.

The expiration of preliminary cleaning belongs to the constructed wetland.

It has an effective surface of 5 m<sup>2</sup> per person on the bottom and is sealed by a foil gasket out of PVC or polyethylene which is 10 mill thick.

The opening for the escape – pipe is build with a flange.

The foil gasket is delivered made to messure and must not be cut or be weld at the building lot.

Only washed Gravel is permittet to be used as filter in the whole sewage system.

The thickness of the filter is about 60 cm.

Passing a percolating Filter out of coarse gravel, the wastewater is induced into the mainfilter.

During the horizontal transmigration of the mainfilter no wastewater is to be seen on the top of the mainfilter. The whole process happens under the top of the mainfilter.

At the end of percolation is another coarse gravel zone located, in which the cleaned wastewater is collected in an perforated pipe and conducted to the duct of control outside.

In the duct of control is the place for the water sampling and the regulation of the waterlevel into the constructed wetland.

The constructed wetland is to be fenced.

The service an maintenance of the sewage system is regulatet into the handbook and the contract of service

Edewecht, 11. Nov. 2009

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