

# The Soil Filter

The heart of ÖKOTEC's  
waste water cleaning

## Sustainable water management with nature-oriented technologies



### Areas of use:

**Municipal plants** with average requirements for reuse and nutrient decomposition

Municipal plants with special requirements for **nitrogen elimination** (for example for discharge into ground water)

Municipal plants with special hygienic requirements due to **reuse of water**

Compact plants for the production of service water through **grey water recycling**

**Reed bed facilities** for cleaning household waste water (with and without reuse)

Sewage treatment plants for **concentrated toilet waste water** and other waste water with high nitrogen content

**Retention soil filter** for temporary storage and cleaning of road run-off

### Construction:

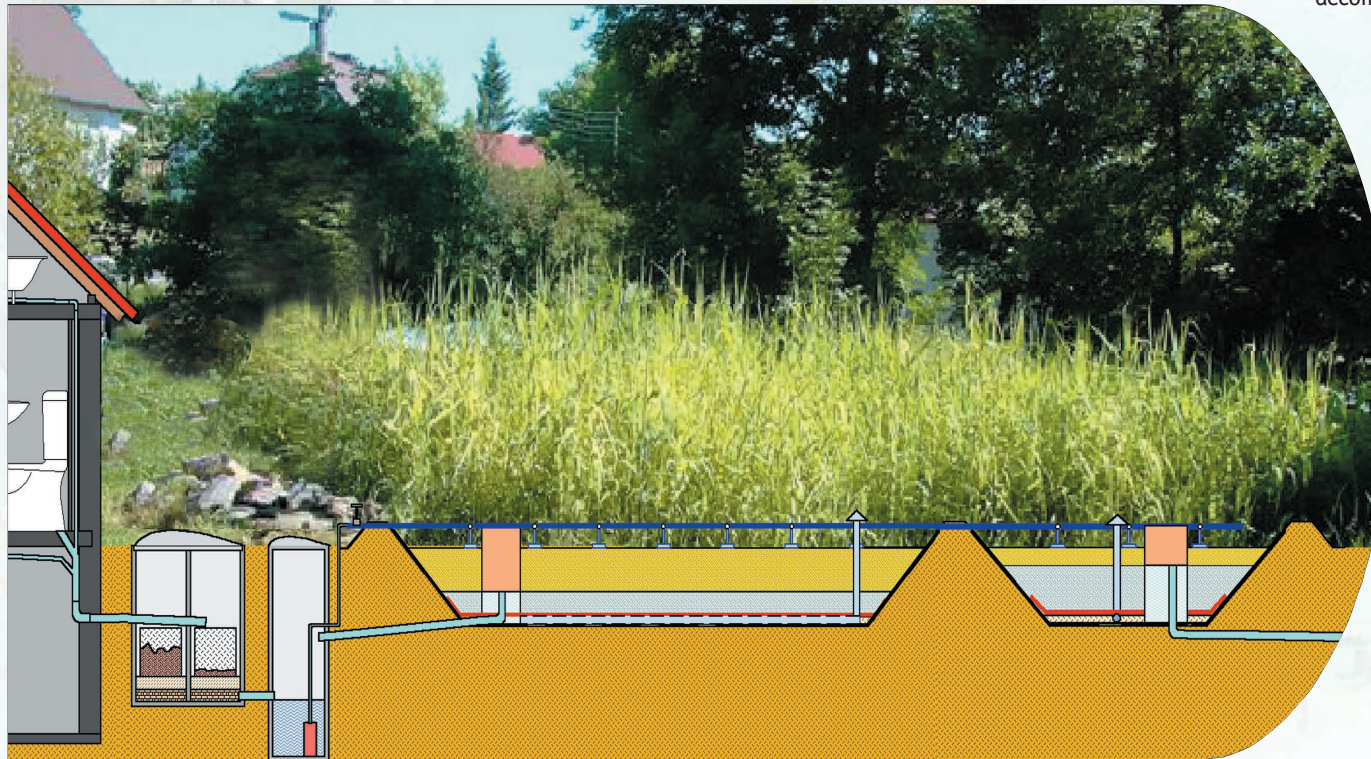
**Water distribution** – an even distribution guarantees an optimal oxygen supply for the decomposing microorganisms.

**Plants** – through shade the filter surface is kept open; root excretions stabilize the micro-flora.

**Humus layer** – here, persistent substances are adsorbed and decomposed through ultraviolet radiation and microorganisms.

**Sand** – here, suspended matter is filtered out; the grains provide a surface for the growth of the microorganisms.

**Gravel with geo-textile support** – here, the cleaned water is collected and led off through a drainage pipe.



Com-  
poster

Sewage  
sludge  
treatment

Treatment of  
**industrial  
waste water**

Treatment of  
**landfill  
leachate**

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