

Wastewater treatment plant for highway toilets

Project

Construction, delivery and installation of a compact MBR (Membrane Batch Reactor) for the wastewater treatment from highway toilets.

Membrane-bioreactor-MBR

The MBR is used for the mechanical and biological treatment of wastewater, especially from highway toilets, which clearly differs from domestic wastewater regarding its initial concentration.

The compact wastewater treatment plant consists of the mechanical pre-treatment (fine screen), the aeration tank, the filtration chamber with submersed siClaro® flat sheet membranes and the separate surplus sludge storage tank.

The filtrate obtained by the filtration process is free from germs and suspended solids and can be reused for irrigation purposes, for the cleaning of the parking area, as flushing water or simply be discharged into the receiving water.



For reuse purposes a filtrate cleaning and storage tank can be integrated into the treatment plant.



The effluent inflow is carried out by the lifting station with an adequately dimensioned wastewater storage tank.

Technical Data

	Dresden/ Germany	Würzburg/ Germany
Population Equivalent (PE)	128 PE ₆₀	450 PE ₆₀
Wastewater inflow (m ³ /d)	max. 7	max. 20
Filtering surface installed (m ²)	75	112,5
Aeration tank (m ³)	15	19
Wastewater storage tank (m ³)	7	20