

MBR Brattendorf, Germany

Task

Construction, delivery and installation of a compact MBR system for the P&D Glasfaser GmbH in Brattendorf, Germany. Commissioning in 01 / 2007.

Inlet

Inlet of the plant emerges from the wallpaper production. Inlets also arise from a hotel, a restaurant as well as from a nearby cheese dairy. About 780 population equivalents are connected to the wastewater treatment plant.

Wastewater Treatment

The sewage treatment system is for the physical-biological treatment of the receiving wastewater from a fibre glass manufacture with connected refining. The pre-treatment of the wastewater comprises of a flocculation station, followed by a lamellar separator and fine filtration. Daily flow and load changes are buffered in two holding tanks. The MBR system comprises of an aeration tank and 2 filtration cells. The biological treated wastewater is separated from the activated sludge by means of Ultrafiltration membranes. Surplus activated sludge is removed periodically and stored in tanks until final disposal.



Design Data

Population equivalent (PE)	150
Inlet to wastewater treatment plant (m ³ /d)	20
Installed membrane surface area (m ²)	250
Aeration tank volume (m ³)	14
Puffer tank volume (m ³)	30