

BIOLEST®

Biological treatment through biofiltration on biozzolane

BIOLEST® is a process that combines the advantages of biological treatment using fixed-bed culture and filtration on a granular material called biozzolane.



Biozzolane is a natural material derived from volcanic rock, specifically pozzolane. It possesses remarkable properties due to its porosity and chemical composition, allowing for rapid development and excellent bacterial attachment to the material.

PERFORMANCE

- Highly compact process
- Natural media: biozzolane®
- Well-distributed aeration for improved transfer within the biomass

APPLICATION AREAS

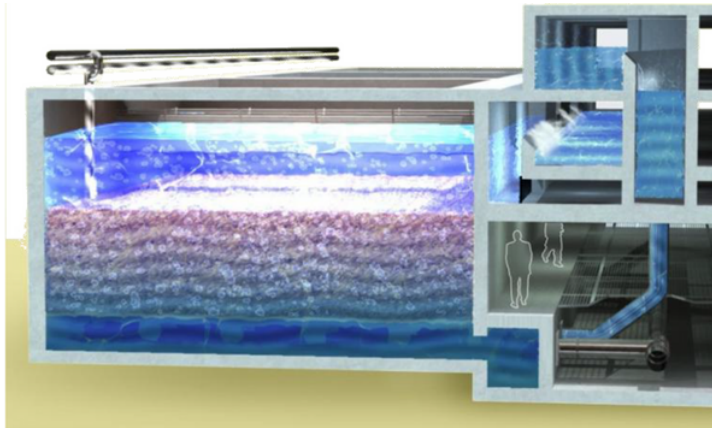
BIOLEST® can be applied in various domains, ranging from carbon removal to post-denitrification for urban and industrial effluents.

The **BIOLEST®** process is particularly suitable for compact plants, varying loads, and diluted effluents that need to integrate into sensitive environments.

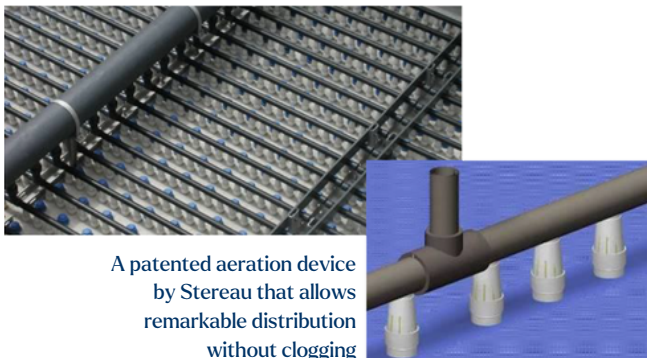
This process is applicable for carbon treatment (**BIOLEST®C**), nitrification (**BIOLEST®N**), and denitrification (**BIOLEST® Pre-DN** or **BIOLEST® Post-DN**).

BIOLEST®

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The principle of upflow co-current biofiltration of water and air on a material denser than water and non-compressible, combined with the intrinsic characteristics of biozzolane®, allows for high-speed operation without material compaction and with excellent performance.

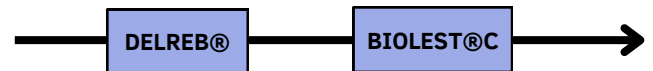


A patented aeration device by Stereau that allows remarkable distribution without clogging

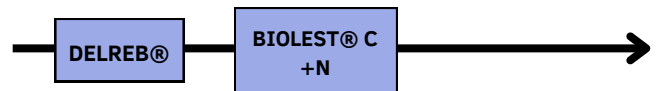
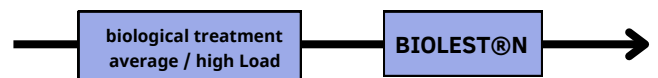
FEATURES

- Consistent treatment quality regardless of sludge index, ensured by the filtration effect
- Particularly tolerant to load variations
- Modular process: the number of cells in operation can be adjusted based on the load to be treated
- Fully automated operation

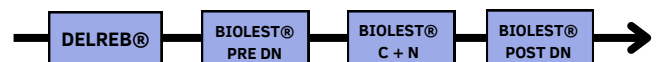
CARBON treatment



NITROGEN NITRIFICATION treatment



Nitrification & Denitrification



RÉFÉRENCES

St Gilles Croix de Vie, La Ciotat, Moutiers, Chambéry, Flaine, SIAAP Usine des Grésillons, Aime La Plagne, Bilbao (Espagne),...



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