



## Lamella Baffle Type LTW

The BIOGEST® Lamella Baffle Type LTW is used for the targeted retention of floating matter in combined sewerage systems / storm water systems without external energy.

A lamella-like arrangement of baffle plates prevents the discharge of solid matter over the threshold into the pre-clarifier. A hydraulically specified arrangement and inclination of lamellas shaped specifically for this purpose ensures that floating matter described herein above is retained efficiently.

- Targeted retention of solids on relief thresholds -

## Functionality

The BIOGEST® Lamella Baffle Type LTW is a baffle system which serves the purpose of effectively retaining floating matter and consists of lamellas counteracting the discharge of solids through their optimum hydraulic arrangement.

The arrangement in the separating structure is possible independently of the geometry of the CSO chamber. For this reason, the lamella baffle can be used in almost all structures. Moreover, the lamella baffle can be retrofitted very easily in existing separating structures. Even small access openings are sufficient for the introduction and the subsequent assembly of the individual modules. Regardless of the respective installation the system reflects the guidelines – as described under DWA-A 166 and A 111 – and therefore ensures the effective retention of floating matters at minimum investment cost.

The lamella baffle is installed in a parallel arrangement to the overflow threshold of the given sewage structure. Depending on the required damming height, a corresponding number of lamellas is summarised into a module in certain height distances and arranged before or on the threshold depending on the geometry of the respective tank. The floating matter is retained effectively by pulling the water flowing through the lamella baffle between the lamellas through the structure below the surface of the water at all times during full damming.

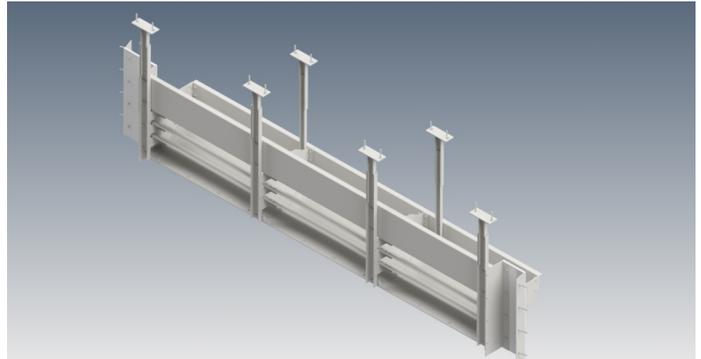
The specific arrangement of the lamella baffle ensures that the same water level prevails both in front of and behind the lamella package. This prevents the formation of a current between these two areas until the overflow height is reached, since this would otherwise lead to a suction effect and to drifting of floating matter through the lamella baffle. This function is completely independent of whether the water level is rising or falling at the specific point in time. This in turn means that the lamella baffle is suitable both, for the damming and emptying processes to the same degree.



## Areas of application

The BIOGEST® Lamella Baffle Type LTW is used for the targeted retention of floating matter in combined sewerage systems / storm water systems without external energy.

It can be installed either at straight or at round weirs.



## The advantages

- ◆ Compact structure thanks to modular arrangement
- ◆ Modules for straight and round relief thresholds
- ◆ Easy retrofitting in existing structures
- ◆ Variable overflow edge for adjusting the overflow height (optional)
- ◆ Entry possible even through very small access openings
- ◆ Operation without external energy
- ◆ Flexible system in terms of building geometry thanks to adaptive system variants
- ◆ Effective retention of solids by avoiding cross currents or suction effects
- ◆ Excellent price-performance ratio
- ◆ Low maintenance