LAMELLA BAFFLE TYPE LTW

BIOGEST® | Coarse solid retention



Targeted retention of solids on relief thresholds

The BIOGEST® Lamella Baffle Type LTW is used for the targeted retention of floating matter in combined sewerage and stormwater systems without external energy. A lamella-like arrangement of baffle plates prevents solid matter from being discharged over the threshold into the pre-clarifier. A hydraulically specified arrangement and inclination of purpose-shaped lamellas ensures that floating matter is retained efficiently.

Functionality

The baffle consists of lamellas that counteract the discharge of solids through their optimum hydraulic arrangement. It can be installed independently of the geometry of the CSO chamber, so it suits almost all structures and can be retrofitted very easily. Even small access openings are sufficient for the introduction and assembly of the individual modules. The system reflects the guidelines in DWA-A 166 and A 111 and ensures effective retention of floating matter at minimum investment cost.

The baffle is installed parallel to the overflow threshold. Depending on the required damming height, a corresponding number of lamellas is combined into a module at set height distances and arranged before or on the threshold, depending on the tank geometry. Floating matter is retained effectively because the water passing through the baffle is drawn between the lamellas below the water surface at all times during full damming.

The arrangement ensures that the same water level prevails in front of and behind the lamella package. This prevents a current forming between the two areas until the overflow height is reached, which would otherwise cause a suction effect and drift floating matter through the baffle. The function is independent of whether the water level is rising or falling, so the baffle suits damming and emptying equally.

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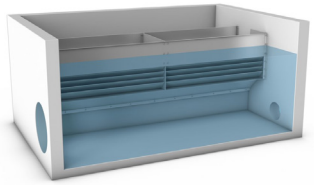
Advantages

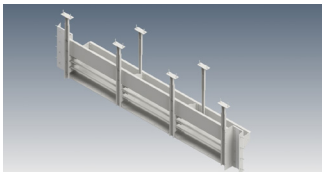
- Compact structure thanks to modular arrangement
- Modules for straight and round relief thresholds
- Easy retrofitting in existing structures
- Variable overflow edge for adjusting the overflow height (optional)
- Entry possible even through very small access openings
- Operation without external energy
- 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

Areas of application

The BIOGEST® Lamella Baffle Type LTW is used for the targeted retention of floating matter in combined sewerage and stormwater systems without external energy. It can be installed at either straight or round weirs.

Application	Relief thresholds, CSO chambers
Threshold types	Straight or round weirs
Operation	No external energy
Guidelines	DWA-A 166 and A 111
Overflow edge	Variable (optional)









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