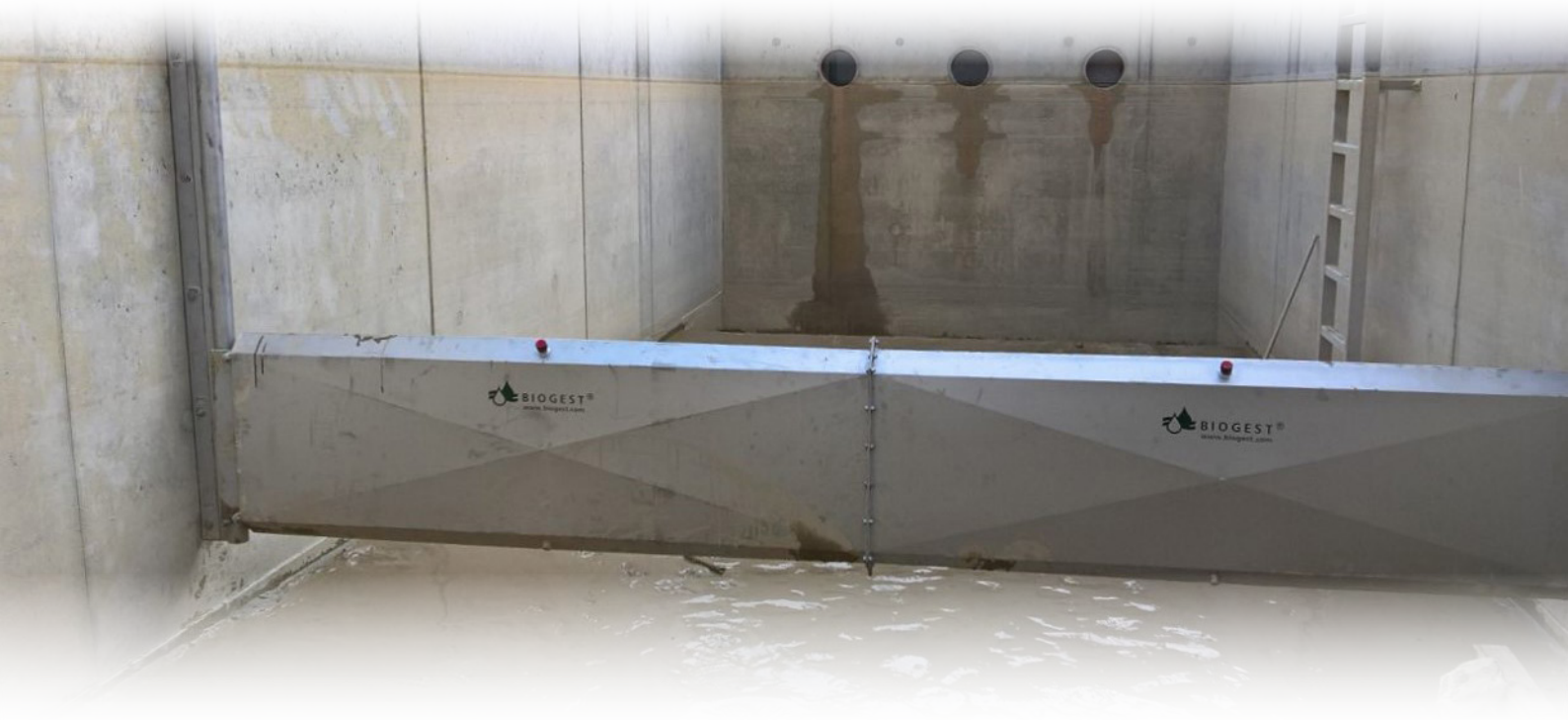
FLOATING SCUM BAFFLE SWTW

BIOGEST® | Coarse solid retention



Solid retention of floating matter at stormwater overflows and CSO outlets

The BIOGEST® Floating Scum Baffle Type SWTW is used for targeted retention of solids on relief thresholds in separating and discharge structures of combined sewage systems. The floating body of the SWTW-V (vertical) rests in its lowest position on the floor of the structure in dry weather. The floating body of the SWTW-R (radial) is located on the overflow wall in dry weather.

Functionality

The baffle consists of one or more balanced floating bodies with a constant immersion depth. The SWTW-V has a wall-mounted guide system with smooth-running Teflon bearings and a lateral sealing system. The SWTW-R has linkage arms with wall or ceiling bearings to fix the baffle to the structure. Rubber lips on both sides seal the baffle against the wall. Owing to the arrangement and immersion of the baffle, floating matter is retained effectively, even at the lowest rising water level, and at any water level in deep structures.

1. With rising water level and the baffle in its low position, floating particles are retained right at the start.
2. The floating particles rise with the water level. The baffle rises with it and retains them on the foul side.
3. During overflow discharge the baffle is at its highest position and holds back floating particles effectively on the foul side. Water discharges over the weir without floating particles.
4. The water level drops. The baffle sinks with it and the floating particles remain on the foul water side.
5. The baffle is back in its low end position.

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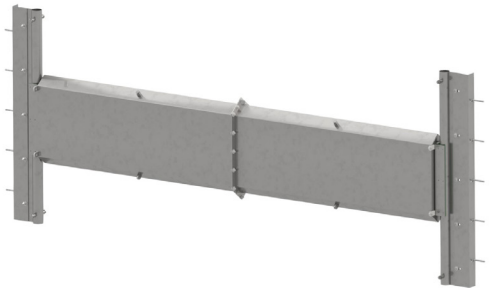
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Advantages

- Effective retention of floating solids by floating baffle
- Compact application due to modular arrangement
- Installation possible even through very small access openings
- Operation without external energy
- High flexibility with regard to different geometries thanks to adaptive system versions
- Ideal for large and fluctuating water levels
- Adjustable immersion depth with water ballast possible
- Excellent price-benefit ratio
- Low maintenance



Areas of application

Many municipal wastewater systems are combined sewer systems. In extreme storm conditions, flow must be relieved to a receiving stream to protect the treatment plant from overloading. The most cost-efficient solution is a retention basin at the pre-clarifier. Coarse solids can be discharged in suspended or floating form during relief, and conventional fixed baffles cannot fully prevent this. Floating scum baffles achieve a much better solid retention rate.

Variants

	SWTW-V	SWTW-R
Arrangement	Vertical	Radial
Dry weather position	Lowest position on structure floor	On the overflow wall
Mounting	Wall-mounted guide system, Teflon bearings	Linkage arms, wall or ceiling bearings







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