

Clarifying Sludge Drying Reed Beds (CSDRBs)



CDSRBs are vertical flow constructed wetlands designed to treat biological solids from upstream treatment systems such as biofilm or high rate algae pond systems. They are composed of different layers of gravel of different granulometry, and are proposed as an alternative to conventional secondary settling tanks.

KEY POINTS:

- Treatment of secondary solids (biofilm / mixed liquor)
- Nature Based Solution (NbS)
- Alternative to secondary settling tank
- Good quality of the clarified products
- Low maintenance
- On site sludge treatment

MAIN FEATURES

- ✓ High performance even under adverse climatic conditions (winter/frost).
- ✓ No use of chemical reagents for dewatering (polyelectrolytes).
- ✓ Very low energy consumption (pumping only). Possibility of using renewable energies.
- ✓ Aerobic process. Absence of odours.
- ✓ Occupied area for sludge in excess of prolonged aeration: 0,2-0,4 m²/PE.
- ✓ Normally more than 4 units in parallel to facilitate resting periods.
- ✓ Sludge management every 10-15 years.

INLET → OUTLET

