

Checklist

Aeration

Project name: _____

Project country: _____

Design criteria

Energy optimised

Invest optimised

Installation

New plant

Rehabilitation

Plant size

PE _____ or inflow _____ m³/day

Plant elevation _____ m above sea level (NN)

Diffuser type

9" disc diffuser

12" disc diffuser

tube diffuser

panel diffuser

Basin data (please enclose a drawing)

Round tank



Annular tank



Rectangular tank



No. of tanks: _____ pcs

No. of tanks: _____ pcs

No. of tanks: _____ pcs

Diameter: _____ m

outer ø: _____ m

Length: _____ m

Depth: _____ m

inner ø: _____ m

Width: _____ m

Volume: _____ m³

Depth: _____ m

Depth: _____ m

Volume: _____ m³

Volume: _____ m³

Circulation channel



Constant water level?

No. of tanks: _____ pcs

Yes

No. of channels: _____ pcs

No

Straight Length: _____ m

Min. water depth: _____ m

Channel width: _____ m

Max. water depth: _____ m

Depth: _____ m

Volume: _____ m³

Process data

preliminary denitrification

intermittent aeration

SBR-process

Submersible mixers:

yes no

If yes:

simultaneous operation (mixers + aeration)

Minimum requirements per tank

SOTR min.: _____ kgO₂/h

SOTR average: _____ kgO₂/h

SOTR max.: _____ kgO₂/h

If SOTR not given

alpha-value required: _____

(value between 0,5 – 0,8)

AOR min.: _____ kgO₂/h

AOR average: _____ kgO₂/h

AOR max.: _____ kgO₂/h

Please fill in if AOR or SOTR are not available:

BOD_{in}: _____ mg/l

COD_{in}: _____ mg/l

MLSS: _____ kg/m³

NH_{4,in}: _____ mg/l

NO_{3,out}: _____ mg/l

BOD_{out}: _____ mg/l

CSB_{out}: _____ mg/l

NH_{4,out}: _____ mg/l

TKN_{out}: _____ mg/l

Process definition

Based on which value should the selection be done

SOTR

airflow

given Number of diffusers

other

Additional comments

Please send the completely filled checklist to:

WILO SE, Werk Hof

Group Competence Team Waste Water Treatment

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