



TREATMENT PERFORMANCE RESULTS

PIA-SR66-2205-1028, shared itt
AQUATO® Umwelttechnologien GmbH
Distributed by **JCR WATER IRL/UK**
Ernstmeierstraße 24, 32052 Herford, Germany
EN 12566-3 Annex B
Results corresponding to EN 12566-3 and S.R. 66

3K-FLOW

Moving bed biofilm reactor (MBBR) process (initial type test)
in combination with Shay Murtagh concrete tanks

Nominal organic daily load (influent)	0.27 kg BOD ₅ /d		
Nominal hydraulic daily load	0.75 m ³ /d		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	92.6 %	54 mg/l
	BOD ₅	96.5 %	12 mg/l
	NH ₄ -N*	70.6 %	11.9 mg/l
	P _{tot}	39.9 %	4.9 mg/l
	SS	96.8 %	11 mg/l
Electrical consumption	0.46 kWh/d		
Number of desludging	Not more than once		

* determined for temperatures $\geq 12^{\circ}$ C in the bioreactor

Tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH
(PIA GmbH)
Hergenrather Weg 30
52074 Aachen, Germany

This document replaces neither the declaration
of performance nor the CE marking.

PIA – Sustainable Certification

geprüft – tested – testé

Gabriel Schatzki

December 2023



Notified Body
No.: 1739



Certified according to
ISO 9001:2015



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Shay Murtagh Ltd.

Distributed by **JCR WATER IRL/UK**
Raharney, Mullingar, Co. Westmeath, Ireland

EN 12566-3 Annex A and C

Results corresponding to EN 12566-3 and S.R. 66

Concrete tanks

Shay Murtagh concrete tanks in combination with
MBBR treatment kit 3K-FLOW

Material	Concrete
Watertightness	Pass
Structural behaviour (crushing resistance)	Pass (also wet conditions)
Durability	Pass

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Daniela Schmitz

December 2023

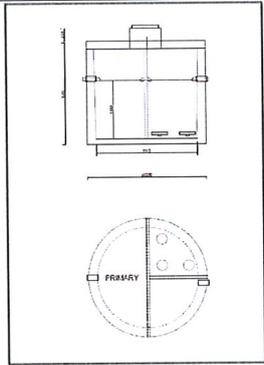
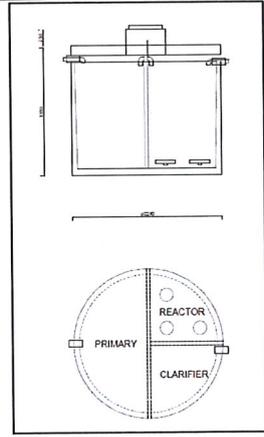


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SBR range shared ITT and its referring test reports:

Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
Initial type test (ITT) 5	Not relevant	Not relevant	Pass PIA2013-199B10.d.01	Not relevant	Not relevant
Compared Tank 5 750 l/d		Pass PIA2016-WD-1602-1025.01	Pass Shared itt conformity check according to S.R. 66:2015	Pass For wet ground conditions also, 0.70 m installation depth from inlet invert	Pass PIA2016-DH-1602-1025
8 1200 l/d		Pass PIA2016-WD-1602-1025.01	Pass Range conformity check according to S.R. 66:2015	Pass PIA2016-ST-BT-1602-1025B.01 For wet ground conditions also, 0.70 m installation depth from inlet invert	Pass PIA2016-DH-1602-1025



5PE Tank

