



Institute for
Wastewater
Technology

PERFORMANCE RESULTS

Conder Products Limited
2 Whitehouse Way, South West Industrial Estate
Peterlee, County Durham, SR8 2HZ, United Kingdom

EN 12566-3 annex B
"Small wastewater treatment systems for up to 50 PT"

Small wastewater treatment system Clereflo NSAF 06
submerged aerated filter technology in a GRP tank

Nominal organic daily load	0.33	kg/d
Nominal hydraulic daily load	1.20	m ³ /d
Material	glass reinforced plastic (GRP)	
Treatment efficiency (nominal sequences)	COD	93.1 %
	BOD ₅	97.1 %
	SS	97.0 %
	NH ₄ -N*	92.2 %
Electrical consumption	2.8	kWh/d

* determined for temperatures ≥ 12°C in the bioreactor.

Performance tested by:

PIA - Prüfinstitut für Abwassertechnik GmbH
(PIA GmbH)
Hergenrather Weg 30
D-52074 Aachen

Certified according to
ISO 9001:2000



Notified Body number: 1739



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

Prüfinstitut für Abwassertechnik GmbH



Geprüft - tested - teste

Elmar Lancé

April 2008

TREATMENT STANDARDS - NSAF 8 –50 P.E.

Summary report on the Treatment Efficiency according to EN 12566- Part 3

Based on Table 4.1 Page 6 of Code of Practice for Wastewater Treatment and Disposal systems serving Single Houses and the test certificate as per the table attached below the mean final effluent standards will be as follows:

Serving a Single Dwelling < 10P.E.

Table 4.1 Range of Raw Domestic Wastewater Influent Characteristics (I.S. En 12566-3:2005).

Parameter	Typical Concentration mg/L
Chemical oxygen demand (COD) (as O ₂)	300-1000
Biochemical oxygen demand (BOD) (as O ₂)	300*-500
Suspended Solids	200-700
Ammonia (as NH ₄ -N)	22-80
Total Phosphorus (as P)	5-20

* Page 9 – Irish Requirements

Treatment Efficiencies as per the EN 12566 –3 Test Aachen, Germany.

Parameter	Efficiency %	Mean Value
Chemical oxygen demand (COD) (as O ₂)	93.1	41
Biochemical oxygen demand (BOD) (as O ₂)	97.1	7
Suspended Solids	97	9
Ammonia (as NH ₄ -N)	89.5	2.8
Total Phosphorus (as P)	50	3.8
Total Nitrogen (as TN)	61.5	19